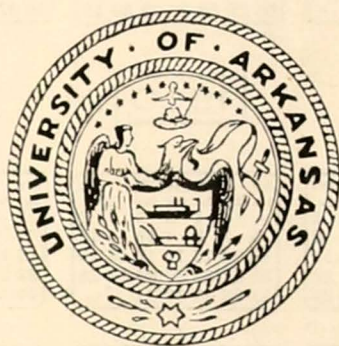


CATALOGUE  
OF THE  
UNIVERSITY OF ARKANSAS  
FOR 1908-09

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ANNOUNCEMENT FOR 1909-1910



FOUNDED MARCH 27, 1871

FAYETTEVILLE, ARKANSAS

# CALENDAR

1909

1909	JULY							1909
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
-	-	-	-	1	2	3		
4	5	6	7	8	9	10		
11	12	13	14	15	16	17		
18	19	20	21	22	23	24		
25	26	27	28	29	30	31		

1909	SEPTEMBER							1909
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
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19	20	21	22	23	24	25		
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1909	NOVEMBER							1909
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
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1909	AUGUST							1909
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29	30	31	-	-	-	-		

1909	OCTOBER						1909
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
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10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
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1909	DECEMBER							1909
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
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12	13	14	15	16	17	18		
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1910

1910	JANUARY						1910
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
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9	10	11	12	13	14	15	
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23 24	24 25	25	26	27	28	29	

1910	MARCH						1910
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
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20	21	22	23	24	25	26	
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1910	MAY							1910
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
1	2	3	4	5	6	7		
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15	16	17	18	19	20	21		
22	23	24	25	26	27	28		
29	30	31	.	.	.	.		

1910	FEBRUARY						1910
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
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1910	APRIL						1910
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	
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1910	JUNE							1910
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.		
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19	20	21	22	23	24	25		
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# CALENDAR, 1909-1910

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## 1909.

- MAY 27. Final Examinations Begin in the Departments at Fayetteville—Thursday.
- MAY 31. Memorial Day—a Holiday—Monday.
- JUNE 3. Memorial Day—a Holiday—Thursday.
- JUNE 6. Baccalaureate Sermon, U. of A. Chapel—Sunday.
- JUNE 9. *Commencement*—Wednesday.
- SEPT. 15. *Academic Year* Begins in all Departments at Fayetteville—Wednesday.
- SEPT. 15-18. Examinations for Admission to B. A., Engineering, Scientific, Normal and Preparatory Courses—Wednesday to Saturday.
- SEPT. 20. Fall Term Begins in the Law School, Little Rock—Monday.
- SEPT. 30. Regular Session Begins in the Medical School, Little Rock—Thursday.

## 1910.

- JAN. 15. Fall Term of Law School Ends—Saturday.
- JAN. 17. Spring Term of Law School Begins—Monday.
- JAN. 22. Mid-Year Examinations Begin in the Departments at Fayetteville—Saturday.
- JAN. 29. First Term Ends in all Departments at Fayetteville—Saturday.
- JAN. 31. Second Term Begins in all Departments at Fayetteville—Monday.
- APR. 30. Regular Session Ends in the Medical School, Little Rock.
- APR. 30. Last Day for Receiving Essays for the William Jennings Bryan Prize—Saturday.
- MAY 26. Final Examinations Begin in the Departments at Fayetteville—Thursday.
- MAY 28. Spring Term of Law School Ends—Saturday.
- MAY 30. Memorial Day—a Holiday—Monday.
- JUNE 3. Memorial Day—a Holiday—Friday.
- JUNE 5. Baccalaureate Sermon, U. of A. Chapel—Sunday.
- JUNE 8. *Commencement*—Wednesday.

## DEPARTMENTS OF THE UNIVERSITY

---

The University comprehends the following departments:

*At Fayetteville:*

THE COLLEGE OF LIBERAL ARTS, SCIENCES, AND ENGINEERING.

THE COLLEGE OF AGRICULTURE.

THE AGRICULTURAL EXPERIMENT STATION.

THE CONSERVATORY OF MUSIC AND ART.

THE PREPARATORY SCHOOL.

*At Little Rock:*

THE MEDICAL SCHOOL.

THE LAW SCHOOL.

*At Pine Bluff:*

THE BRANCH NORMAL COLLEGE



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\*Resigned Nov. 5. 1908.



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\*From September, 1908.

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*Secretary of the Y. W. C. A.*
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*Chemist.*

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*Assistant Dairy Husbandman.*

WILFRED S. JACOBS, B. S. A.,  
*Assistant Horticulturist.*

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EDITH G. BLACK,  
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FRANK VINSONHALER, M. D.,  
*Professor of Ophthalmology and Otology.*

W. H. MILLER, M. D.,  
*Professor of Obstetrics.*

- F. L. FRENCH, M. D.,  
*Professor of Anatomy.*
- CARLE E. BENTLEY, M. D.,  
*Professor of Principles and Practice of Surgery and Clinical Surgery.*
- JOHN R. DIBRELL, M. D.,  
*Professor of Clinical Microscopy and Bacteriology.*
- ANDERSON WATKINS, M. D.,  
*Professor of Principles and Practice of Surgery.*
- C. E. WITT, M. D.,  
*Professor of Materia Medica and Therapeutics, and Secretary.*
- MORGAN SMITH, M. D.,  
*Professor of Physiology.*
- A. R. STOVER, M. D.,  
*Professor of Chemistry.*
- M. D. OGDEN, M. D.,  
*Professor of Pathology and Histology.*
- O. K. JUDD, M. D.,  
*Professor of Anatomy.*
- A. E. HARRIS, M. D.,  
*Professor of Clinical Medicine and Physical Diagnosis.*
- OSCAR GRAY, M. D.,  
*Professor of Clinical Gynecology.*
- J. L. DIBRELL, M. D.,  
*Demonstrator of Anatomy.*
- E. P. BLEDSOE, M. D.,  
*Professor of Nervous Diseases.*

## Lecturers, Instructors and Demonstrators

MORGAN SMITH, M. D.,

*Instructor in Pediatrics.*

A. L. CARMICHAEL, M. D.,

*Instructor in Clinical Medicine.*

J. G. WATKINS, M. D.,

*Assistant in Ophthalmology and Otology.*

J. C. CUNNINGHAM, M. D.,

*Assistant in Obstetrics.*

M. D. McCLAIN, M. D.,

*Assistant in Genito-Urinary Diseases.*

MILTON VAUGHAN, M. D.,

*Assistant in Materia Medica and Therapeutics.*

WM. GOODWIN, M. D.,

*Assistant in Clinical Microscopy and Bacteriology*

C. V. SCOTT, M. D.,

*Assistant in Clinical Surgery.*

H. H. KIRBY, M. D.,

*Instructor in Dermatology and Assistant Demonstrator of  
Anatomy.*

A. M. ZELL, M. D.,

*Assistant in Pathology.*

J. A. TELLIER, A. B., LL. B.,

*Lecturer on Medical Jurisprudence.*

(To be supplied.)

*Instructor in Chemical Laboratory.*

R. L. MAXWELL, M. D.,

*Prosector of Anatomy.*

(To be supplied.)

*Assistant Demonstrator of Anatomy.*



## THE LAW SCHOOL.

## Little Rock.

- JOHN NEWTON TILLMAN, LL. D.,  
*President of University.*
- J. H. CARMICHAEL, LL. B., DEAN,  
*Contracts, Constitutional Law, Conflict of Laws, Judgments.*
- JOHN FLETCHER, LL. M.,  
*Real Property.*
- GEORGE W. MURPHY, LL. B.,  
*Law of Evidence.*
- TOM M. MEHAFFY, LL. B.,  
*Law of Torts.*
- JACOB TRIEBER, LL. B.,  
*Federal Procedure.*
- ASHLEY COCKRILL, LL. B.,  
*Law of Insurance.*
- JESSE C. HART, LL. B.,  
*Equity Jurisprudence.*
- WILLIAM M. LEWIS, LL. B.,  
*Criminal Law and Procedure.*
- T. N. ROBERTSON, LL. B.,  
*Agency, Corporations, Negotiable Instruments, Pleading  
and Practice.*
- T. E. HELM, LL. B.,  
*Fraudulent Conveyances.*
- MENIFEE HOUSE, LL. B.,  
*Law of Sales.*
- R. E. WILEY, LL. B.,  
*Law of Bankruptcy.*
- W. B. BROOKS, LL. B.,  
*Domestic Relations, Real Property—Junior.*
- R. C. POWERS, LL. B.,  
*Law of Bailments and Torts.*
- J. K. RIFFEL, LL. B.,  
*Law of Partnerships.*
- GEORGE VAUGHAN, LL. B.,  
*Abstracting and Searching Titles.*

**THE BRANCH NORMAL COLLEGE.****Pine Bluff.**

- ISAAC FISHER, PRINCIPAL,  
*Psychology, Ethics and Pedagogy.*
- ABRAHAM WILLIS JOHNSON,  
*Mathematics, English and Latin.*
- FREDERICK THOMAS VINEGAR,  
*Latin, Mathematics, and Physics.*
- ELLA CHARLOTTE MAYS,  
*Algebra, Arithmetic, Ancient History, and Music.*
- THOMAS CLAY OGBURN,  
*Chemistry, Geography, and United States History.*
- SADIE M. PEEBLES,  
*Free Hand Drawing, English, and Arithmetic.*
- MAMIE BRAWLEY JUNE,  
*Dressmaking.*
- BURTON NEILL WILSON, B. Sc. M. E.,  
*Superintendent of Mechanic Arts.*
- WILLIAM STEPHENS HARRIS,  
*Assistant Superintendent of Mechanic Arts.*
- JAMES LINCOLN ROSS,  
*Machine Shop and Forge.*
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**COMMITTEES OF THE FACULTY.**

The President of the University is *ex-officio* a member of all Standing Committees.

ON DISCIPLINE—Professors Gladson and Pickel.

ON DOUBTFUL CASES—Professors Knoch, Reynolds and Carroll.

ON CLASSIFICATIONS AND PETITIONS—B. A. Students, Professors Purdue, Shannon and Droke; B. M. E. Students, Professor Wilson; B. C. E. Students, Professor Knoch; B. E. E. Students, Professor Gladson; B. Mi. E. Students, Associate Professor Steel; B. Ch. E. and B. S. C. Students, Professor Carroll; B. S. A. Students, Professor Adams; Conservatory Students, Director Tovey; Preparatory Students, Principal Ramsey.

ON ACCREDITED SCHOOLS—Professors Reynolds, Dunn, Carroll, Shannon, and R. J. Nelson.

ON THE LIBRARY—Professors Shannon, Reynolds, Purdue and Mrs. Lawrence.

ON THE CATALOGUE—Professors Futrall, Knoch, Marinoni, and M. Nelson.

ON THE SCHEDULE—Professors Futrall, Purdue, Gladson, and M. Nelson.

ON EMPLOYMENT—Professors Johnson, Knoch, and Shannon.

ON ENTERTAINMENTS—Professors Wilson, Brough, and Tovey.

ON COMMENCEMENT—Professors Johnson, Droke, and Gladson.

ON ADVISERS—Professors Droke, Brough, Shannon, and Ramsey.

## GENERAL STATEMENT

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### ORIGIN.

The University of Arkansas owes its origin to an act of congress, approved July 2, 1862, providing that public lands should be granted to the several states, to the amount of "30,000 acres for each senator and representative in congress," for the sale of which there should be established a perpetual fund, "the interest of which shall be inviolably appropriated by each state, which may take and claim the benefit of this act, to the endowment, support, and maintenance of at least one college, where the leading object shall be, without excluding other scientific and classical studies and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislature of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life." The act forbids the use of any portion of the aforesaid fund, or of the interest thereon, for the purchase, erection, or maintenance of any building or buildings. The states accepting the provisions of the act are required to provide for the construction and maintenance of the necessary buildings, and for the expenses of administration in carrying out the purposes of the act.

The general assembly of the state of Arkansas accepted the national law by passing an act, approved March 27, 1871, which provided for the location, organization and maintenance of the University of Arkansas, and which allowed the several counties of the state to compete until a certain time for the location of the University by making public or private donations of bonds, moneys, or lands. Several individuals and communities made bids: Washington, the only county that competed, voted \$100,000. Fayetteville, Washington County, voted \$30,000 in addition, and was selected as the seat of the University. The institution was opened January 22, 1872.

Under an act of congress, approved March 2, 1887, the University receives \$15,000 annually for the maintenance of the



experiment station, "to aid in acquiring and diffusing among the people useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." In 1906, the congress passed an act increasing this appropriation by the sum of \$5,000 the first year, and providing for an additional increase of \$2,000 per annum, until such increased appropriation reaches \$15,000 annually.

Under an act of congress, approved August 30, 1890, the University receives \$25,000 annually, "to be applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their application to the industries of life."

On March 4, 1907, the congress passed an act increasing this appropriation at the rate of \$5,000 per annum, until the total amount appropriated annually reaches \$50,000.

As required by law, three-elevenths of this sum goes to the Branch Normal College at Pine Bluff.

### PURPOSE.

The University is at the head of the public educational system of the state of Arkansas. It seeks to foster the higher educational interests of the state, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its faculty and board of trustees, from year to year, to bring it into still closer articulation with the public schools of the state, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature and science, and technical education in the industrial arts and professional studies.

Through the aid received from the United States and from the state of Arkansas, the University is enabled to offer to its students free tuition, except in the studies of law, medicine, music, and art, and to open wide her doors to all seekers of learning.

### LOCATION.

Five of the eight divisions of the University, viz.: the College of Liberal Arts, Sciences and Engineering, the Preparatory School, the Conservatory of Music and Arts, the College of Agriculture, and the Agricultural Experiment Station, are located at Fayetteville, Washington County, Arkansas. Situated in the heart of the Ozark Mountains, it is more than 1,500 feet above the sea level. The location is thought to be unsurpassed in salubrity of climate, in beauty of surrounding scenery, in variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south of the Texas branch of the St. Louis & San Francisco Railroad, which has four trains daily each way, and various connections with other roads, both north and south. From the west students may reach Fayetteville by the Ozark & Cherokee Central Railroad.

# EQUIPMENT OF THE UNIVERSITY AT FAYETTEVILLE

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## UNIVERSITY HALL.

This is a brick structure with cut stone trimmings and a stone foundation. It is four stories in height above the basement. It consists of a front building, two hundred and fourteen feet in length, and two wings, each one hundred and twenty-four feet in depth, the whole forming three sides of a quadrangle. This building contains a large number of class rooms, chapel, departmental libraries of mathematics, and English and modern languages, general library and collegiate study hall, separate study halls for the boys and girls of the Preparatory School, armory, magazine, band room, laboratories for biology, geology and mining engineering, music and art rooms, president's and commandant's offices, natural history museum, literary society halls, toilet rooms, etc., in all, seventy rooms, together with broad corridors and stairways. The building is heated by steam, lighted by electricity, and supplied with water from the city waterworks.

## ENGINEERING HALL.

Engineering Hall is located on the main driveway, just south of University Hall. It accommodates the departments of electrical, civil and mechanical engineering, with offices, lecture rooms, and laboratories. It is built of native sandstone and pressed brick, with limestone trimmings.

The building is one hundred and fifty by fifty-eight feet, four inches, three stories high, and contains thirty-two rooms, aggregating about 26,000 square feet of floor space. A corridor divides the building from east to west and is intersected at the middle by another hallway from the front of the building, thus giving easy access to any room.

In addition to the laboratories, offices, lecture rooms and draughting rooms of departments of engineering, there is an assembly room on the first floor for the accommodation of the engineering societies, and other gatherings too large to be accommodated in a lecture room.

The library and reading room contains engineering magazines, journals and technical works on engineering.

### MECHANICAL HALL.

Mechanical Hall is of brick, forty feet wide and one hundred and fifty-five feet in length, with an ell thirty-five by forty feet, and contains the machine shop, wood shop, foundry, and forge shop. The shops will accommodate about seventy-five students at one time. Adjoining on the east is a boiler room fifty-three by fifty-four feet, containing three fire tube boilers of seventy horsepower each, one water tube boiler of one hundred horsepower, one water tube boiler of one hundred and fifty horsepower, and also the necessary pumps, injectors, water heaters, etc.

### COLLEGE OF AGRICULTURE AND AGRICULTURAL EXPERIMENT STATION.

The College of Agriculture and the Agricultural Experiment Station are closely related and united in their work, the personnel of their working forces being largely the same. The equipment of the Experiment Station, including field experiments and the results of investigations, is at the disposal of the college for purposes of instruction and demonstration.

The buildings include two old experiment station buildings which are devoted largely to laboratories and offices. In them are found the offices, laboratories, and such equipment as is necessary for indoor work of the departments of Animal Husbandry, Horticulture, Agricultural Chemistry, and Veterinary Science.

In the new agricultural building is found the office of the Dean and Director, Entomologist, Assistant Horticulturist, and Agronomist, also the class rooms and laboratories of Entomology, Horticulture and Agronomy.

The Dairy Department has a stone building forty-five by seventy-five feet, two stories, with cheese-curing room and cold storage rooms for butter in the basement. On the first floor is located the creamery room containing different types of pasteurizers, ripeners and churns; the cheesemaking room fully equipped for the manufacture of Cheddar cheese; and a farm dairy which has many styles of hand separators, butter workers and churns. The second floor affords accommodation for a large lecture room, milk-testing laboratory and offices. The dairy manufactures one hundred to two hundred pounds of butter each week throughout the year.



A greenhouse serves to keep up a stock of plants for campus and indoor decorations and offers a place for experiments and instruction in forcing and greenhouse methods.

There are also a cottage for the farm foreman, barns, and implement and tool houses for the various departments.

### CHEMISTRY BUILDING.

On the first floor are located laboratories for qualitative and quantitative analysis, organic and physical chemistry, a private office and laboratory and a balance room.

On second floor is the general lecture room, accommodating over one hundred and fifty students, with raised seats, giving each student full view of the lecturer's demonstrating table. Occupying all of one end of the second floor is the general chemistry laboratory, thirty-eight by forty-two feet, with a large balance room, storage room, and other accessories.

### PHYSICS BUILDING.

This structure is forty by fifty feet, devoted exclusively to laboratory work in Physics. The assembly room, and a smaller room in Engineering Hall are used for recitations. The laboratory is divided into two large rooms, containing at the center a space of ten by ten feet as the general store room. Solid oak tables on piers independent of the floor fulfill the conditions of required steadiness, as do also the galvanometer posts similarly built. Numerous cases contain a good supply of apparatus.

### BUCHANAN HALL.

This is a substantial and handsome brick building, three stories high, and containing over forty rooms. It is favorably located, with a view to the health of the occupants, and convenience of access to University Hall. The rooms are large, well ventilated and lighted, and open into broad corridors extending lengthwise through the building. From a side veranda in front there are three entrances to the building. There are also two rear entrances. Behind the hall a brick bath house has been erected, which contains bath and toilet rooms, supplied with cold and hot water.

### HILL HALL.

In honor of Lieutenant-General Daniel Harvy Hill, C. S. A., who served ably as president of the University of Arkansas from June 16, 1877, until June 6, 1884, the name "Hill Hall" has been given the building known until 1906 as the "New Dormitory."

This structure, for which a special appropriation was made by the general assembly of 1901, is located west of University Hall, and north of Buchanan Hall, and is convenient of access to both buildings. It is a substantial brick structure, three stories high, with a foundation of range stone work, and with trimmings of dressed limestone, and contains in all some twenty-five rooms. The first story contains a commodious dining hall, thirty-eight by eighty-six feet, which is sufficiently large to accommodate all students who occupy rooms in University dormitories. On this floor are also kitchen, storeroom, furnace room, coal bin, etc. The second and third stories contain some twenty rooms for students, besides ample corridors, stairways, etc. By the aid of the superintendent and the liberality of the students and citizens a handsome suite of parlors has been tastefully and elegantly furnished. The entire building is heated by steam, lighted by electricity, and supplied with water by the city waterworks.

### GRAY HALL.

This is a dormitory for young men. It is named in honor of Colonel Oliver Crosby Gray, C. S. A. Born and educated in Maine, he became thoroughly and prominently identified with the interests of the state of Arkansas. For a number of years he was Professor of Mathematics and Commandant in the University of Arkansas.

It was the purpose in the arrangement and planning of Gray Hall to provide as many bed rooms as possible with every comfort and convenience patterned after the U. S. Army barracks, with a two-story veranda extending entirely across the front.

Each of the two floors has thirty-four bed rooms and four large linen closets. The bed rooms are of an average size of twelve by fourteen feet, for two students each, with a large wardrobe and book shelves in each room, which is amply lighted by two large outside windows.

The building is one hundred and seventy-six feet in length by ninety-two feet in total depth, and is divided into groups or wings of from four to six rooms each, each group being inclosed within a brick fire wall, and all rooms being about equally distant from the two large flights of stairs.

An excellent system of steam heat is installed and connected with the general heating plant of the University.

The general exterior is good, having wide overhanging eaves with graceful roof lines, gray stone trimmings, and a good frontage, which adds to the effectiveness.

### ELLA CARNALL HALL.

The dormitory for young women is named "Ella Carnall Hall" in honor of Ella Carnall, Ph. M., Associate Professor of English and Modern Languages in the University of Arkansas, who died much beloved by both pupils and fellow-teachers, and who bequeathed to the University her library of useful works on modern philology.

Ella Carnall Hall is designed to be complete within itself, having its own toilet and bath rooms, dining room, kitchen, and independent steam heating plant. The building faces south, with a frontage of one hundred and ninety feet, and an eastern and western exposure of one hundred and six feet.

The first floor contains a large parlor and a library, each thirty by thirty-four feet, and situated to the right and the left respectively of the main entrance, with a reception room and parlor adjoining. In the rear wings of this story are the dining room, recreation room (each thirty-five by forty feet), kitchen and pantry. The east and west wings contain each a group of five bed rooms with a toilet and bath room, with a ten-foot veranda extending across the front and ends of these wings.

The second story has thirty-six bed rooms, four large linen closets, and four toilet rooms.

In the third story are eight full-sized bed rooms, two toilet rooms, and ten rooms for individual piano practice. The latter are isolated in the east and west wings in such a manner as not to interfere with study or any other work going on in the building.

The arrangement of this building is such that every bed room has two large outside windows, giving ample light and ventila-



tion, one large wardrobe, and one alcove with book shelves. The rooms average twenty by fourteen feet or over, and accommodate two students each.

All halls are well lighted and ventilated. The toilet rooms are so grouped and arranged as to give perfect sanitation at all times, and the stairways, four in number, are at the most convenient points to feed the building equally. This building has a pleasing exterior, distinguished by its massive but well-proportioned lines, its spacious verandas, and generally home-like and inviting appearance.

### HOSPITAL.

This is a one and one-half story brick building, forty-five by sixty-two feet, with a stone basement. The latter contains a kitchen, dining room, pantries, and a storage cellar with cement floors. The first story has a wide recreation and service corridor the entire length, with a fireplace and vestibule entrance; a reception room and parlor with a fireplace; an open ward for men with four beds; a men's bath and toilet room; a public toilet room; adjoining the men's bath room, the fully equipped wound-dressing and operating room; a private ward for men and one for women; also a large open ward for women and the women's bath room; and a contagious ward entirely isolated from the rest of the building, with its own toilet room and fireplace. The second story contains four large finished rooms for the use of nurses and servants, or other purposes, if it is desired, plenty of closets, a linen room, and a large store room. The building is supplied with hot and cold water and electric lights, and is modern in every particular. It looks more like a home than a hospital.

### GENERAL LIBRARY AND DEPARTMENTAL LIBRARIES.

The general library, occupying the second floor of the north wing of University Hall, is for the use of the whole University. All students who have matriculated may take out books, one volume at a time. A list of printed rules governing the use of the library may be had upon application to the Librarian. Officers of the University have access to the shelves, and students engaged in advanced work, upon recommendation by their instructors, may have books reserved from those parts of the collection with



which they are occupied. The reading room of the general library is a study hall for collegiate students only.

The leading high-class periodicals (including magazines, reviews, and various technical monthlies) are taken and bound as they accumulate. This fund of current literature is rendered useful and accessible by Poole's Index and Readers' Guide to Periodical Literature. Forty-six magazines, nine weekly, and seven daily papers are received by the general library.

The general library contains 14,165 books and 5,000 pamphlets, with a catalogue on cards, which is accessible to the public and consists of two parts, one arranged by authors, the other by title.

In addition there are departmental libraries, opened to advanced students engaged in research work, and in charge of the heads of the several departments. These special libraries contain the following number of volumes:

*Ancient Language:* U. H. 22; 300 books. PROFESSOR FUTRALL.

*English and Modern Languages:* U. H. 30; 975 bound books; 205 unbound books.

PROFESSORS SHANNON, MARINONI AND REINHARD.

*Mathematics and Astronomy:* U. H. 34; 306 books; 45 pamphlets. PROFESSOR DROKE.

*Chemistry:* Chemical Laboratory; 128 books; 140 journals; 950 pamphlets. PROFESSOR CARROLL.

*Biology:* U. H. 32; 250 books. PROFESSOR PICKEL.

*Geology and Mining:* U. H. 39; 1,227 books; 1,929 pamphlets. PROFESSOR PURDUE.

*Civil Engineering:* Eng. Hall; 200 books. PROFESSOR KNOCH.

*Agriculture and Horticulture:* Experiment Station; 2,000 books; 10,000 pamphlets; 35 journals. ACTING DIRECTOR ADAMS.

*Preparatory School:* U. H. 12, 13, and 25; 180 books.

PRINCIPAL RAMSEY.

*Expression:* U. H. 38; 75 books. MRS. CROCKETT.

Thus the various branches of the University library contain 19,806 books and 18,129 pamphlets.

## THE LABORATORIES.

In the laboratories of the University opportunities are afforded for practical instruction in chemistry, mineralogy, physics, botany, zoölogy, entomology, horticulture, and in civil, mechanical, electrical, chemical, and mining engineering.

### CHEMICAL LABORATORIES.

The work in chemistry is carried on in the newly erected Chemistry Building. On the first floor of the building are laboratories for quantitative and qualitative analysis, organic chemistry, physical chemistry, the balance room, and a library. On the second floor is a large lecture room and a general laboratory for first year students. In the basement are store rooms and the laboratory for assaying. The various laboratories are well provided with work-tables, sinks, hoods, water, and gas. The department is provided with apparatus sufficient for the present needs.

### BIOLOGICAL LABORATORY.

The biological laboratory is located on the third floor of University Hall, and has accommodation for about forty students. The laboratory is furnished with work-tables, a sink, and the necessary gas fixtures for incubators, sterilizers, etc.; also an aquarium for keeping aquatic animals and plants on hand for observation and study. The equipment in apparatus consists of Bausch and Lomb compound microscopes, dissecting microscopes, microtomes, and such other apparatus and chemicals as are needed for the practical work in biology. There is a collection of insects, and also apparatus for collecting, drying, preserving and mounting insects. The laboratory has a number of skeletons of different animals, and models and charts for teaching plant and animal anatomy.

### LABORATORIES OF GEOLOGY AND MINING ENGINEERING.

The geological department is provided with aneroid barometers, compasses, hand-levels, pedometer, etc., for field work. There is also a well-equipped laboratory for determinative mineralogy.

### MECHANICAL ENGINEERING LABORATORY.

The laboratory contains the following machinery: One thirty-five horsepower compound automatic steam engine, one Hornsby-Akroid oil engine, one Kerr steam turbine, two slide valve engines, one ten horsepower Weber gasoline engine, one thirty-

five horsepower Westinghouse compound steam engine, one  $4\frac{1}{2} \times 3\frac{1}{2} \times 4$  duplex steam pump, one fifty horsepower Wheeler condenser with air, water and circulating pumps, one 60,000-pound Rheile testing machine.

The laboratory is well provided with apparatus for experimental work, including a Mahler bomb calorimeter for testing fuels, an Orsat apparatus for flue gas analysis, steam calorimeters, six engine indicators, to injectors, an assortment of thermometers, pressure gauges, measuring tanks, feed water heater, water meters, scales, etc.

The steam boilers used for heating the University buildings are arranged so as to be available for experimental work, and the shop engine, a Corliss, is also used for purposes of instruction.

Among the facilities for instruction in engineering contained in the equipment of the mechanical department in addition to that given under the heading of shops, mechanical engineering drawing room, and mechanical laboratory may be mentioned a Deane steam pump with airchamber, water and steam cylinders and valve chambers sectioned, so that a student may see the working parts; a Cameron steam pump with a steam cylinder sectioned, showing the valve motion; a Knowles pump in full working order; a Blake steam pump in section; sections of injectors; a model of Stevenson's link motion; and a collection of samples of manufactured articles such as steam pipe coverings, leather belt-ings, lubricating oils, etc.

### ELECTRICAL LABORATORIES.

The dynamo laboratory affords excellent facilities for experimental work in practical machinery. It is located in the east end of the basement of the Engineering Hall.

The power is supplied by a 30 horsepower, vertical type, double cylinder gasoline engine, and a 20 K. W. induction motor. A 60-cell, 300 ampere-hour storage battery supplies current for experiments in which absolutely steady power is desired.

There are direct current dynamos and motors of the constant current and constant potential types. Single, two and three phase alternators supply current at various voltages and frequencies. There are transformers, converters, synchronous and induction motors, with a liberal supply of measuring instruments for use with the various machines.



The senior laboratory is located on the first floor of Engineering Hall, and is supplied with direct current at 110, 220 and 500 volts. Alternate current, single phase, at 50, 100 or 200 volts and 60 cycles. Two phase, 60 cycle at 110 or 220. Three phase at 110 or 220 volts, with a frequency of 60 to 133 cycles per second. A high tension testing transformer supplies current at any voltage up to 120,000 volts for testing of insulators, while standard cells, a Kelvin balance and a potentiometer furnish means for calibrating the laboratory measuring instruments. The equipment enables students to carry on experimental work of a very wide range and to obtain proficiency in operating and testing electrical machinery.

Students are also permitted to inspect the plant of the Fayetteville Electric Light and Power Company, take measurements and make tests on it. Their primary mains supply the electrical laboratory with alternate current at 60 cycles and 2,000 volts.

The photometric laboratory, which also serves as a photographic and X-ray dark room, is supplied with standard photometer bar, Lummer-Brodhun screen and Amylacetate lamp. It is connected by a cable with the switchboards in the storage battery room and in the dynamo room.

### CIVIL ENGINEERING LABORATORY AND EQUIPMENT.

The instrument laboratory for this department is located on the first floor of Engineering Hall, and is provided with all the necessary instruments for work in land, railroad; and city surveying and office work. The equipment of the field instruments has been selected so as to afford students the opportunity of becoming familiar with the instruments of the different manufacturers. Among the instruments there are a number of engineers' transits and Y levels, theodolites, transit with solar attachment, compasses, hand levels, standard and ordinary steel tapes, plane tables, sextant, aneroid, and mercurial barometers, etc. An equipment for practical astronomy has been added, consisting of a large altazimuth, reading to seconds by levels and micrometers; a sidereal clock with break-circuit attachment; and a chronograph reading to tenths of seconds.

The laboratory for testing the materials of construction and for work in experimental hydraulics is located in the northwest



corner of the basement of Engineering Hall. It is a well-lighted room having a floor space of 2,450 square feet.

The equipment for the purpose of testing the quality and strength of cements and mortars includes one 2,000-pound tension machine, one 1,000-pound automatic machine, brass molds for tension, compression, and transverse test pieces, storage tanks and apparatus for testing fineness, specific gravity, and activity, and for accelerated tests.

For testing steel the laboratory contains a 4,000-pound tension machine and a 5,000-pound transverse machine for tests on bars, etc. Special apparatus has been provided for testing paving brick and road material, among which may be mentioned a grinding machine for preparing test specimens and machines for abrasion tests.

The equipment for experiments in hydraulics consists of a Pelton water wheel, a hydraulic engine, water meters, weirs and other apparatus.

The laboratory is also well equipped for making blue and brown prints of any size up to 36x64 inches.

### **AGRICULTURAL CHEMISTRY LABORATORY.**

The laboratory of agricultural chemistry is located in three rooms in the old experiment station building. It is equipped with water, gas, tables, hoods, and all apparatus necessary for analytical work relative to various agricultural problems.

### **HORTICULTURAL LABORATORY.**

For some phases of study the principal laboratory for the student of horticulture is the field and garden.

For such work as must be carried on indoors there is available for study and practice a fairly complete equipment of spraying machinery, garden tools, implements and conveniences. There are rooms equipped for practical instruction in grafting, seed sowing, seed testing, and transplanting. The greenhouse offers facilities for some phases of class work, plant study and practice. There is an equipment of microscopes, and accessories for the study of diseases, the minute structure of plants, and functions. The departmental library embraces several hundred volumes and

a large number of pamphlets. These are available for reference by students in horticulture, and others, under the usual regulations.

### LABORATORIES OF PATHOLOGY AND BACTERIOLOGY.

These occupy three rooms in the Experiment Station building and are equipped with all modern apparatus used in advanced work in this line, including Zeiss and Reichert microscopes, thermostats, sliding, paraffine and freezing microtomes, and a fairly complete reference library of home and foreign publications on patho-biological research.

These laboratories are not at present available for undergraduate instruction.

### ENTOMOLOGICAL LABORATORY.

The entomological laboratory is located on the first floor of the Agricultural Building, occupying two rooms. It is well supplied with apparatus such as microscopes, microtomes, paraffine baths, and dissecting instruments. There are collecting nets, insect cabinets, work-tables, and a very complete set of entomological publications at the disposal of the student. The collection of insects is growing rapidly, and serves as a valuable aid to the student of entomology.

### SHOPS.

The machine shop contains a Corliss engine, which runs the machinery in the whole building, a large iron planer, a shaper, several lathes of different sizes and makes, drill press, grinding machines, milling machine, and a good supply of hand tools, benches, and materials.

The forge shop contains eight Buffalo forges with down draft, which takes the smoke away through underground pipe, thus avoiding the smoke and dirt of the ordinary blacksmith shop. It also contains a shearing and punching machine, eight anvils of different weights, and all the necessary blacksmith tools for the eight forges.

The wood-shop contains one buzz planer, one large cylinder planer, circular saw, band saw, five smaller lathes, one 18-inch

pattern maker's lathe, one double column shaper, and twenty-six benches, each equipped with a complete set of carpenter's tools.

The foundry contains one Colleau cupola with a capacity of one and one-half tons of iron per hour; one brass furnace of one hundred and fifty pounds capacity; Buffalo pressure blower and core oven.

The boiler room contains three seventy horsepower fire tube boilers, one water tube boiler of one hundred horsepower, and one water tube boiler of one hundred and fifty horsepower, besides feed pumps, injectors, measuring tanks, etc.

The various departments of the shop building afford facilities for giving practical instruction to seventy-five students at one time.

### **MECHANICAL ENGINEERING DRAWING ROOM.**

The equipment includes the usual tables and stools; and among the special apparatus and instruments may be mentioned the planimeter, odontograph, slide rule, protractor, section liner, etc. A blue print room contains complete facilities for the details of the blue print process. One room is provided with photographic facilities, which will be used to prepare lantern slides and prints illustrating various branches of engineering.

### **PHYSICAL CULTURE ROOM.**

A large room in the north wing of University Hall is set apart for the use of the department of physical culture, and has been furnished, as far as means were available, with the equipment necessary for systematic physical training.

### **THE ARMORY.**

The armory is a large well-lighted room, sixty by eighty feet, occupying the entire basement of the north wing of the University Hall. It is substantially fitted up with arm racks, compartments for equipments, and other conveniences. Two adjacent rooms are assigned to the military department, and are used as band room and store room.

The equipment of the department consists of three hundred Krag-Jorgenson rifles, three hundred sets of infantry equipments,



twenty-seven cadet swords (West Point pattern), national colors, flags, signal equipments, ammunition, etc., and a superior set of band instruments.

The arms and infantry equipments are furnished the University by the national government. The other equipments have been purchased by the University, and belong to the Military Department.

## THE MUSEUM.

A. H. Purdue, Curator.

The museum occupies a large portion of the fourth floor of University Hall. The material of the museum has been collected with the view of facilitating instruction in geology and biology, and also to make it of interest to the visiting public. That portion of the collection suitable for display is arranged in glass cases, while the working collection is in drawers. Sloping-top cases with drawers beneath afford space for several thousand specimens.

*Relief Maps.* For illustration in geology and general interest to the public, there have been placed in the museum the following relief maps: Geological relief maps of the State of Arkansas, Colorado Canyon, Central Tennessee and the United States; a convex relief map of the United States on a section of a globe sixteen feet in diameter; a relief map of Carmel Bay, California; Ice Springs craters, Utah; Yosemite Valley; Palestine; Mount Vesuvius; the State of California; San Francisco Peninsula; and a sectional geological relief map of the Leadville region, Colorado.

*The Mineral Collection.* The mineral collection contains about three thousand specimens, representing the different mineral groups. Many of these specimens are displayed in cases.

*The Petrographic Collection.* This collection consists of a large number of specimens representing sedimentary, igneous, and metamorphic rock. Besides, there is a large collection of building and other stones from different parts of the country.

*Paleontological.* There is a large collection of invertebrate fossils in the museum, mainly representing the fauna of the different geological horizons in northern Arkansas.\*

*The Major Earle Collection.* Major F. R. Earle has deposited in the museum his private collection of minerals and fossils. The collection was formerly in Cane Hill College.



*The Zoological and Botanical Collection.* This collection consists of two hundred birds and mammals, representing eighty species; two hundred reptiles and amphibians, representing forty species, fifteen hundred fishes, representing three hundred and fifty species; one thousand insects and other invertebrates, representing two hundred species; several skeletons.

Donations to the museum will be gratefully acknowledged, and the donors may be sure that anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered and destroyed through lack of care or improper handling. The museum is now prepared to receive collections on deposit, and to preserve and to display them under the owner's name until called for.

Though the museum is most important on account of its educational value, it at the same time serves an important purpose in representing the resources of this State.

### ATHLETIC FIELD.

For the accommodation of the University football and baseball teams and spectators there is an excellent athletic field with a covered grandstand.

# ADMISSION TO THE COLLEGE

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## GENERAL CONDITIONS OF ADMISSION.

Candidates for admission are urged to be present on the opening day of the session. Admission at a later date is not refused, but it is attended with greater or less inconvenience.

Students on their arrival at Fayetteville should report promptly to the president. Needless delay in reporting or unseemly conduct may justify exclusion from the University.

Applicants should present certificates of honorable discharge from the institution last attended, or furnish other testimony of good moral character.

Entrance examination will be required of all students entering the University, except those who bring certificates from accredited preparatory schools or from reputable colleges or universities. For the time at which these examinations will be held, see page 47.

## ADMISSION TO THE FRESHMAN CLASS.

The requirements for admission to the Freshman class consist partly of constants, or required subjects, and partly of electives. For unconditional admission to any Bachelor's course, or to the normal course, a student will be required to present for the year 1909-10 eleven and one-half units. This requirement will be increased at the rate of one unit each year until the total requirement reaches fourteen units. Thus, in September, 1910, it will be twelve and one-half units; in September, 1911, thirteen and one-half units, and in September, 1912, fourteen units. A student whose entrance credits do not fall short of the required amount by more than two units may be admitted and allowed to make up his deficiencies.

## A UNIT DEFINED.

One unit is regarded as the equivalent of a preparatory course of five periods of forty-five minutes each weekly throughout the academic year of nine months. In science courses two laboratory periods are counted as the equivalent of one recitation period. Credits of less than one unit may be granted for courses that do not run full time.

The subjects in which units may be offered for entrance are divided into two groups, as follows:

**Group A.**

Latin, 4 units.  
Greek, 3 units.  
French, 3 units.

German, 3 units.  
English, 3 units.

**Group B.**

Agriculture, 1 unit.  
Algebra, 2 units.  
Plane Geometry, 1 unit.  
U. S. History,  $\frac{1}{2}$  unit or 1 unit.  
General History,  $\frac{1}{2}$  unit or 1 unit.  
Greek and Roman History, 1 unit.  
Modern History, 1 unit.  
English History, 1 unit.

Physical Geography,  $\frac{1}{2}$  unit or 1 unit.  
Physiology,  $\frac{1}{2}$  unit or 1 unit.  
Botany, 1 unit.  
Zoölogy, 1 unit.  
Physics, 1 unit.  
Chemistry, 1 unit.  
Manual Training, 1 unit.  
Mechanical Drawing, 1 unit.  
Civics,  $\frac{1}{2}$  unit.  
Pedagogy,  $\frac{1}{2}$  unit.  
Psychology,  $\frac{1}{2}$  unit.

Below will be found a detailed statement of the requirements for admission to the different courses:

**FOR THE ARTS AND NORMAL COURSES.**

Required:

English, 3 units.  
Algebra, 2 units.  
Plane Geometry, 1 unit.  
History,  $1\frac{1}{2}$  units.

Candidates for the B. A. degree will be required to present four additional units from Group A, at least two of which must be in one language.

**FOR THE AGRICULTURAL, SCIENTIFIC AND ENGINEERING COURSES.**

Required:

English, 3 units.  
Algebra, 2 units.  
Plane Geometry, 1 unit.  
U. S. History,  $\frac{1}{2}$  unit.  
Physics, 1 unit.

Required in addition four units selected from Group A or B, or from both.

### \*ENTRANCE EXAMINATION SUBJECTS.

The following statement will indicate the amount of work in both required and elective subjects which a student may offer in making up his entrance credits, but, has no reference to what work will be required if college credit is sought in these subjects.

#### English.†

I. *Composition*—The candidate will be required to write a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number, perhaps ten or fifteen, drawn in 1909-10-11 from the following works:

Group 1. (Two to be selected.)

Shakespeare's *As You Like It*, *Henry Fifth*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group 2. (One to be selected.)

Bacon's *Essays*, Bunyan's *Pilgrim's Progress*, Part I; Addison's *The Sir Roger de Coverley Papers*, in *The Spectator*; Franklin's *Autobiography*.

Group 3. (One to be selected.)

Chaucer's *Prologue*, Spencer's *Faerie Queen* (selections), Pope's *Rape of the Lock*, Goldsmith's *The Deserted Village*, Palgrave's *Golden Treasury* (first series), Book II and III, with especial attention to Dryden, Collins, Gray, Cowper and Burns.

Group 4. (Two to be selected.)

Goldsmith's *The Vicar of Wakefield*, Scott's *Ivanhoe*, Scott's *Quentin Durward*, Hawthorne's *The House of the Seven Gables*, Thackeray's *Henry Esmond*, Mrs. Gaskell's *Cranford*, Dickens' *A Tale of Two Cities*, George Eliot's *Silas Marner*, Blackmore's *Lorna Doone*.

\*In January, 1909, the University issued an "Entrance Requirements Number" of the University Bulletin, in which the requirements for admission to the Freshman Class are explained at much greater length than is possible in this catalogue. A copy of this bulletin will be mailed on request.

†SPECIAL ANNOUNCEMENT.—No candidate will be admitted to the Freshman class in English who does not present official evidence that he has completed the English course of an accredited school, or who does not pass a written examination based upon the requirements mentioned in detail in this catalogue. Furthermore, no candidate will be admitted to this examination who does not certify that he has read all the works prescribed for reading, and studied carefully all the works prescribed for careful study. No substitutions will be allowed.



Group 5. (Two to be selected.)

Irving's *Sketch Book*, Lamb's *Essays of Elia*, De Quincey's *The English Mail Coach* and *Joan of Arc*, Carlyle's *Heroes and Hero-Worship*, Emerson's *Essays* (selected), Ruskin's *Sesame and Lilies*.

Group 6. (Two to be selected.)

Coleridge's *Ancient Mariner*, Scott's *The Lady of the Lake*, Byron's *Mazeppa* and *The Prisoner of Chillon*, Palgrave's *Golden Treasury* (first series), Book IV; with especial attention to Wordsworth, Keats and Shelley; Macaulay's *Lays of Ancient Rome*, Poe's *Poems*, Lowell's *The Vision of Sir Launfal*, Arnold's *Sohrab and Rustum*, Longfellow's *The Courtship of Miles Standish*, Tennyson's *Gareth and Lynette*, *Launcelot and Elaine*, and *The Passing of Arthur*; Browning, *Selections*.

II. *Careful Study*—A certain number of books will be prescribed for careful study. This part of the examination will be upon the subject matter, literary form, and logical structure, and will also test the candidate's ability to express his knowledge clearly and accurately. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong. The books prescribed for this part of the examination in 1909-10-11 are:

Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address*, and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

The candidate is expected to read intelligently all the books mentioned in I. He should read them as he reads other books; he is expected, not to know them minutely, but to have freshly in mind their most important parts. In every case knowledge of the book will be regarded as less important than ability to write English. As additional evidence of preparation, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work.

Though there is no formal examination in grammar or rhetoric, no candidate will be accepted in English whose work is seriously

defective in point of spelling, grammar, idiom, punctuation, or division into paragraphs.

In connection with the reading and study of the prescribed books, parallel or subsidiary reading should be encouraged, and *a considerable amount of English poetry should be committed to memory.*

### **Algebra.**

*Two Units.*

To simultaneous quadratic equations, with special attention to factoring, the theory of exponents and radicals.

### **Plane Geometry.**

*One Unit.*

All of plane geometry will be required for admission to the Freshman class. A note-book containing the solution of at least one hundred and fifty original exercises should be submitted for examination.

### **United States History.**

*One-half Unit.*

The completion of any good high school history of the United States is sufficient.

### **General History.**

*One Unit.*

The University advises that the subject be divided into two years' work—the first year being devoted to ancient and the second year to modern history. For the present the completion of Meyers' General History or equivalent will be accepted.

### **Ancient History.**

*One Unit.*

Emphasize Greece and Rome. The completion of one of the late text-books on the subject. Five recitations a week for one year.

### **Modern History.**

*One Unit.*

The completion of one of the late high-school text-books on the period. Elective. Five recitations a week for one year.

### **English History.**

*One Unit.*

The completion of a good high-school text on the subject. Five recitations a week for one year.

### **Latin.**

*Three Units.*

The minimum requirements in Latin are the reading of four books of Cæsar and of four orations of Cicero, or the equivalent in other prose; a thorough knowledge of the forms and of

the fundamental constructions of verb and noun; and the ability to translate into idiomatic Latin such sentences as those found in Bennett's Latin Writer. Students offering Virgil should have had four years of competent instruction in Latin, and should have read not less than six books of the *Æneid*. For this a credit of one additional unit will be allowed.

**Greek.***Three Units.*

The requirements can be met by not less than three years of competent instruction in the preparatory school. The ground covered should be the same as that in Greek 1 and 2 (see page 87 of this catalogue), or an equivalent.

**Elementary German.***Two Units.*

The examination will be suited to the proficiency of those who have had two years of German in a preparatory school, or the equivalent of German 1 (see page 92 of this catalogue), and will test (a) the candidate's knowledge of the rudiments of German grammar; (b) ability to read easy prose at sight, and (c) to translate simple English sentences into German. The candidate should have read two hundred pages of easy prose.

**Advanced German.***One Unit.*

The examination will be suited to the proficiency of those who have had at least three years of German in a preparatory school, or the equivalent of German 2 (see page 92 of this catalogue), and will test the candidate's ability to read (a) modern German prose and poetry at sight, and (b) to translate easy English narrative into German. The candidate should have read three hundred and seventy pages of the works of Riehl, (Heyse, Freytag, Baumbach), Heine, and thirty pages of lyrics and ballads.

**Elementary French.***Two Units.*

The examinations will be suited to the proficiency of those who have had two years of French in a preparatory school, or the equivalent of French 1 (see page 93 of this catalogue), and will include (a) the translation at sight of ordinary nineteenth century prose; (b) the translation from English into French of sentences to test the candidate's familiarity with elementary grammar. The candidate should have read three hundred pages of simple prose.



**Advanced French.***One Unit.*

The examination will be suited to the proficiency of those who have had at least three years of French in a preparatory school, or the equivalent of French 2 (see page 93 of this catalogue), and will test the candidate's ability (a) to translate standard French prose and poetry at sight, and (b) to turn easy English prose into French. The candidate should have read six hundred pages in the works of such authors as Daudet, Loti, Sandeau, Corneille, Racine, and Molière.

**Chemistry.***One Unit.*

Remsen's Chemistry (Elementary Course), Freer's Elements of Chemistry, or Hessler & Smith's Essentials of Chemistry, or an equivalent. A laboratory note-book covering two hours of laboratory work per week for one year must be presented for examination.

**Physics.***One Unit.*

Gage's Elements of Physics, Appleton's School Physics, or Hall & Bergen's Physics, or an equivalent; sufficient apparatus for the teacher to perform all the experiments. A laboratory note-book covering two hours of laboratory work per week for one year must be presented for examination.

**Physiology.***One-half Unit.*

Martin's Human Body, or an equivalent.

**Botany.***One Unit.*

Gray's Lessons in Botany and Vegetable Physiology, or an equivalent. A laboratory note-book covering two hours of laboratory work for one year must be presented for examination.

**Zoology.***One Unit.*

Packard's Zoölogy, elementary course, and Boyer's Laboratory Guide, or an equivalent. A laboratory note-book covering two hours of laboratory work for one year must be presented for examination.

**Manual Training and Mechanical Drawing. *One Unit Each.***

Credits in manual training and mechanical drawing will be accepted.



**Psychology and Pedagogy.***One Unit.*

Text suggested: Halleck's Psychology and Psychic Culture.

**Agriculture.***One Unit.*

One year's work consisting of five forty-five minute periods weekly will receive one unit credit. A detailed statement from the former instructor of the student must be presented, giving a description of the work done. E. B. Voorhees' First Principles of Agriculture is recommended as a text.

**ORDER OF EXAMINATIONS FOR ADMISSION IN  
1909.**

*Wednesday, September 15*—9 a. m., registration of students; 1 to 3 p. m., Geometry.

*Thursday, September 16*.—1 to 4 p. m., Algebra.

*Friday, September 17*.—1 to 4 p. m., Latin.

*Saturday, September 18*.—9 a. m. to 12 m., English Composition and Literature; 1 to 2:30 p. m., United States History; 2:30 to 4 p. m., General History.

The order of examinations in other subjects will be announced at the opening of the University.

**EXAMINATIONS AT PLACES OTHER THAN  
FAYETTEVILLE.**

Students living at a distance from the University may obtain special examinations near their homes, if applied for in due time before the beginning of each session. The questions will be sent on application to the principal of any school, or to any county examiner. The questions must be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his endorsement that the examination was properly conducted.

**ADMISSION BY CERTIFICATE.**

The graduates of accredited schools are admitted to the Freshman class in the University without examination, provided, in all cases, certificates from the principal of the school attended

be presented, containing specific statements of the kind and extent of work done in the studies in which credits are desired. Blank forms for such certificates will be furnished by the University. *Diplomas of graduation will not be accepted in lieu of certificates.* Students from schools regularly accredited to other reputable colleges and universities will be admitted to the Freshman class without examination, *provided*, they present evidence that such schools are duly accredited and that they have completed the work required for admission to the Freshman class of this University in the courses which they desire to take.

A student who presents a certificate of scholarship from a high school, academy, or college not on the list of accredited schools, is required to take such examinations as may be prescribed. The result of such examinations, together with the certificates, will be passed on and proper credit allowed by the professors of the departments which such student proposes to enter.

### ADMISSION TO ADVANCED STANDING.

Candidates for admission to classes in advance of the Freshman will be required to pass satisfactory examinations in the subject previously pursued by the class which they propose to enter. But such candidates coming from colleges or universities of good standing, may, on the presentation of the proper certificates as to the studies pursued, be admitted provisionally to such standing and upon such terms as the faculty may deem equitable in such cases.

### ACCREDITED SCHOOLS.

Any school desiring accredited relations with the University should make application to the accredited school committee. The application should state clearly the text-books used, the length of school term and of recitation periods, equipments such as library and scientific apparatus, the names of teachers doing high-school work, with their qualifications as shown by education and experience. When this information is received the University will, if it is deemed best, send an officer of the institution or some other competent person to inspect the school; and from the data secured from all sources the University will decide

whether or not the school shall be accredited. But as the University has neither funds nor an officer set apart for this purpose, delays may occur in visitation; the authorities, however, will be as prompt in the matter as possible.

The principals of accredited schools should report annually all changes in course of study and teaching force. The University may visit an accredited school or may call for information at any time. Failure to keep the University informed regarding the school may be the occasion of dropping the same from the list. To prepare for the Freshman class the course of study should not be less than three years of thirty-six weeks each, based on an elementary course of seven or eight years. The University looks with distrust upon pretentious schools; and, if the course of study announced by a school applying for accredited relations is more than the teaching force can well do, that fact will prejudice the cause of the school.

### LIST OF ACCREDITED SCHOOLS.

Below is given a list of schools already accredited. New names are added from time to time. No effort is made in the list given below to classify the schools. Some of them do more work than is required for entrance; while others fall short of meeting entrance conditions in one or two subjects. A record is kept by the University of the subjects in which each school is accredited.

SCHOOL.	PRINCIPAL.
Amity High School.....	S. M. Samson.
Argenta High School .....	E. B. Gardner.
Arkansas Cumberland College.....	C. D. Crawford.
Atkins High School .....	J. P. Bingham.
Batesville High School .....	L. Campbell.
Bellefonte High School .....	W. D. Jeter.
Belleville High School .....	
Benton High School .....	A. C. Shipp.
Bentonville Academy .....	E. E. Bagwell.
Camden High School .....	Asa M. McCain.
Carlisle High School .....	John J. Janes.
Charleston High School .....	M. V. Waterfield.
Choctaw High School .....	W. E. Halbrook.



SCHOOL.	PRINCIPAL.
Clarendon High School .....	J. McCullough.
Clarksville High School .....	J. W. Sallis.
Corning High School .....	C. M. Reves.
Crossett High School .....	D. C. Hastin.
Dardanelle High School .....	W. D. Crawford.
De Queen High School .....	A. V. Hamilton.
El Dorado High School .....	W. K. Waller.
Eureka Springs High School.....	C. S. Barnett.
Fordyce Training School .....	J. D. Clary.
Fort Smith High School .....	H. C. Morrison.
Gravette High School .....	Wilson Hunt.
Green Forest High School .....	W. H. Ingersoll
Hamburg High School .....	
Harrison High School .....	S. J. F. Wynne.
Havana High School .....	M. Sullivant.
Helena High School .....	S. H. Spragins.
Hesperian High School, Lockesburg.	L. E. Quinn.
Hinemon University High School...	J. W. Shewmake.
Hope High School .....	W. J. Hammond.
Hot Springs High School.....	
Jonesboro High School .....	D. T. Rogers.
Little Rock High School.....	Wallace Townsend.
Logan Co. High School, Guthrie,	
Okla. ....	W. S. Calvert.
Lonoke High School .....	A. J. Meadors.
McAlester (Okla.) High School....	B. H. Locke.
Malvern High School .....	R. H. Freeland.
Marianna High School .....	J. H. Andrews.
Mena High School .....	W. T. Adams.
Morrilton High School .....	Ury McKenzie.
Mountain Home Academy .....	H. P. Webb.
Nashville High School .....	R. H. Kolb.
Newport High School .....	William L. Wallace.
Paris Academy .....	Joe Gardner.
Paris (Texas) High School .....	J. P. Downer.
Pea Ridge Masonic College.....	S. C. Parish.
Pine Bluff High School .....	J. H. Thatch.
Pocahontas High School .....	E. D. Means.
Portland High School .....	John R. Anders, Jr.



SCHOOL	PRINCIPAL
Prairie Grove High School .....	J. H. Caldwell.
Presbyterian Training School, War-	
ren .....	D. L. Paisley.
Rogers High School .....	Morris E. Alling.
Russellville High School .....	W. A. Crawford.
Searcy High School .....	Garland May.
Siloam Springs High School .....	John W. White.
Sloan-Hendrix Academy .....	W. H. Williamson.
Southwestern Academy, Magnolia..	T. J. Ainsworth.
Springdale High School .....	
Stephens High School .....	J. P. Womack.
Stone County Academy, Mountain	
View .....	J. R. Duty.
Stuttgart High School .....	I. C. Gibson
Texarkana High School .....	Walter L. Hale.
Thompson's Institute, Paragould...	R. S. Thompson.
Tom Allen High School, Prescott...	O. L. Dunaway.
Tulsa (Okla.) High School.....	J. G. Masters.
Van Buren High School .....	Miss Sue Burney.
Warren High School .....	J. A. Presson.
Washington High School .....	M. A. Matlock.
Western Military Academy, Alton,	
Ill. ....	A. M. Jackson.
Wynne High School .....	H. A. Woodward.

## DEPARTMENT OF SECONDARY EDUCATION.

The General Education Board has supplied funds for the creation of a Department of Secondary Education. The principal duties of the head of this department are to ascertain where the conditions are favorable for the establishment of public high schools not now in existence; to visit such places and endeavor to organize public high schools in accordance with the laws of the State, to endeavor to create in these communities a public sentiment that shall permanently sustain such high schools, and to endeavor to place the high schools under such local leadership as will give them intelligent and wise direction. After the organization of the high schools, this official and the State University are expected to exercise a fostering care over such institutions.

## MISCELLANEOUS INFORMATION

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### SELECTION OF COURSES OF STUDY.

Students are allowed all reasonable freedom in choosing their courses of study. But they are required to pursue their studies in the order prescribed, and, when candidates for a degree, to complete, as a condition of graduation, all the subjects in the course leading to such degree. Changes in the course of study selected are discouraged, but for sufficient reasons are allowed if made within three weeks after admission; subsequently no such change can be made during the session except by the express permission of the faculty.

### NUMBER OF RECITATIONS.

All students are required to take not less than twelve nor more than eighteen recitations or their equivalent per week, exclusive of military science and tactics. It is assumed that each hour of recitation involves approximately two hours of preparation, and each two hours of laboratory one hour of preparation on the part of the average student. Therefore, in general, two hours of laboratory work are counted as the equivalent of one hour of recitation; but in cases where laboratory work done under the supervision of an instructor does not require outside preparation, three hours shall be the equivalent of the unit of credit.

### CLASSIFICATION OF STUDENTS.

The satisfactory completion of the work of a class as attested by daily recitations and examinations is the condition of enrollment in a higher class. Some margin, however, is allowed for making up studies in arrears. But more than seven hours per week required for such studies or more than seven hours per week omitted from the studies of a given class prevent enrollment therein. No student who has more than six hours per week of unfinished preparatory work can be classified as Freshman.

### SPECIAL STUDENTS.

1. Students are advised to pursue in all cases in which it is practicable, some one of the regular courses leading to a degree. The number of these courses and the liberal provisions for electives allow sufficient play for individual preference in the selection of subjects required for a liberal and well-rounded education.

2. Students who are not candidates for a degree, but who have completed all the studies below the Freshman class, may elect a special course of study under the supervision of the classification committee and with the approval of the professors in charge of the subjects chosen.

3. Persons not under twenty-one years of age may elect a special course of study under the direction of the faculty, provided they show by examination or otherwise that they are qualified to pursue profitably the studies which they propose to take up.

4. Students in special courses are subject to the same regulations and to the same examinations in the studies pursued as all other undergraduate students.

### MID-YEAR AND FINAL EXAMINATIONS.

1. Examinations, chiefly in writing, are held near the end of each term. The grades are determined by combining the values of the daily recitations and of the examinations, and are divided into four groups, as follows: Excellent (E); Good (G); Fair (F); Poor (P). A grade not lower than F is required for a "pass," which is the equivalent of about 75 per cent. At the end of each term a report is made to the parent or guardian of each student, showing his progress, general conduct, etc.

2. If a student has failed in any study, he may nevertheless be allowed to take up the next study in advance, provided he be deemed by the professor in charge of the department to which the study belongs not incompetent to pursue it; but he will be required to pass a satisfactory examination in the study in which he failed, or take up with the next class.

3. If a student has proved competent to continue his advanced work, but has not completed all the preceding studies in his course, he must resume the latter, and if he be found to be overworked, he will be required to drop a part of his advanced work.



## APPOINTMENT OF BENEFICIARIES.

Beneficiary appointments entitle the holders to free tuition. Such an appointment may be obtained from the county judge of the county in which the student resides, or from the president on arrival at the University. The total number of beneficiaries allowed to the state is one thousand.

## EXPENSES.

It is the object of the University to give the best possible education at the lowest possible cost. Tuition is free to all students. A matriculation fee of ten dollars is charged all candidates for admission. The following estimates are based upon the actual expenses of students during recent sessions:

Clothes, including uniform...	\$ 20 00	\$ 40 00	\$ 65 00
Board, laundry, etc.....	112 00	120 00	135 00
Books, instruments, etc.....	10 00	15 00	20 00
Incidentals .....	15 00	30 00	35 00
Matriculation fee .....	10 00	10 00	10 00
	<hr/>	<hr/>	<hr/>
	\$167 00	\$215 00	\$265 00

Each student occupying a room in one of the dormitories is charged a fee of five dollars per year. To have a room reserved, this fee must be paid not later than September 1.

Fees are payable in advance. Board bills are payable monthly in advance. A diploma fee of five dollars is charged all graduates. All dues are to be paid or satisfactorily adjusted before diplomas are conferred.

## STUDENT LABOR.

A large part of the student body work during vacant hours to meet part of their expenses.

The general assembly has established a student labor fund, which provides work for deserving young men and women who need help to meet their college expenses. Considerable manual and clerical labor is necessary to carry on the various departments of the University, and students who desire to work are employed



when practicable and paid at the rate of ten cents per hour. The requests for work always exceed the amount of money appropriated, and the University makes no promises to furnish employment for wages to all who apply.

### BOARD FOR YOUNG MEN.

A fee of five dollars is charged each occupant of a room in the University dormitories. Students leaving the University frequently sell their furniture at a small reduction. If there are not rooms enough for all, preference is given to Arkansas students. An officer of the University is in charge of the building, and the rooms are inspected by the faculty whenever it is deemed necessary.

Students boarding elsewhere are under the supervision of the president of the University, and are allowed to board only at places approved by him. No student is allowed to change his boarding place without the consent of the president.

### BOARD FOR YOUNG WOMEN.

Young women who, for any reason are unable to room and board at the dormitory, may secure homes in private families in the town. A list of approved boarding houses has been arranged by the Dean of Women, Miss Jobelle Holcombe, Ella Carnall Hall, and all young women desiring board in town should consult her before securing homes. All young women in the University are under the general supervision of the Dean of Women and are subject to the following regulations:

1. Young ladies and young gentlemen are not allowed to board at the same place.
2. Young ladies are not allowed to change their boarding places without permission from the Dean of Women.
3. Callers may be entertained only on Friday and Saturday evenings and also on Sunday evening when a young man desires to accompany a young lady to church.
4. Callers are expected to leave at 10 o'clock p. m.
5. Young ladies may go out only on Friday and Saturday evenings. This regulation may be suspended for lectures and other high class entertainments.

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NOTE—The reception committee of the Y. M. C. A. will endeavor to meet all trains and assist the incoming students in finding eligible boarding places.

### STUDENT ENTERTAINMENTS.

Students are not allowed to give entertainments of a social nature except on Friday and Saturday evenings. All such entertainments must close not later than 11 p. m.

### ABSENCES AND WITHDRAWALS.

Absences from the University during the session are not permitted except for valid reasons. The right of a parent to withdraw his son or daughter at any time, without reason assigned, is recognized, but without such withdrawals the student can not be relieved of the obligation to attend the University duties. The incidental absences of students during the session are exceedingly disadvantageous, both to themselves and to the University. While, therefore, the president permits them, in cases where propriety or urgent necessity seem to make them avoidable, it is held to be a duty to inquire into the reasons for which the permission is solicited.

Parents or guardians who wish to withdraw their children or wards from the University should write to the president stating their wishes. No honorable discharge will be given\* to a student under age who is unable to produce the written application of his parent or guardian for his withdrawal, nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian to his withdrawal from the University.

### SALE OF ARDENT SPIRITS PROHIBITED.

By an act of the general assembly of the State of Arkansas, it is unlawful for any person to sell or give away any vinous or ardent spirits within five miles of the University of Arkansas, unless they are prescribed by a regular practicing physician for medical purposes.

# UNIVERSITY ORGANIZATIONS

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## YOUNG MEN'S CHRISTIAN ASSOCIATION.

B. W. DICKSON, A. B., General Secretary.

**OBJECT**—The Young Men's Christian Association stands for the development of the man, physically, mentally, and spiritually. Its object is to lead students to become disciples of Jesus Christ as their Divine Lord and Savior, to lead them to join the church, to promote growth in Christian faith and character and to enlist them in Christian service.

Its mission is to befriend and help those who need friends and help; to apply to practical college life the principles of Christian faith; to stimulate men to develop a well-proportioned, all-round manhood; to train men for intelligent, aggressive Christian work; to bring to bear upon the University life a vigorous and healthful influence—in short to prepare an army of men to go out from the institution to become religious leaders in their communities, as they will there become the business, social, and intellectual leaders.

**WORK**—The Association has for its special work the carrying on of Bible study and mission study in small groups led by students who have had special training.

Religious meetings are held each Sunday afternoon in the Association Hall, at 2:30. At these meetings addresses are given on such subjects as the following: The Principles that Should Guide a Man in the Choice of a Life Work; The Ministry; The Association Secretaryship; Mission Work, both Home and Foreign; Christian Stewardship; Higher Ideals of Life; Personal Purity; and General Religious Topics.

Special evangelistic meetings are held at least once a year. Other religious work is carried on by the weekly prayer meetings on Wednesday night from 6:30 to 7:00; also groups prayer meetings and personal work.

**BIBLE STUDY**—Special emphasis is placed on the study of the Bible. Group classes of from five to ten men are organized among the students in boarding houses and dormitories under the direction of chosen leaders.

The Bible study course is divided into four parts corresponding to University years. The classes meet once a week and



under the direction of their leader they discuss the points that have been studied during the week. The objects of these courses are the devotional, practical and daily study of the Bible.

The courses for 1909-1910 are as follows:

*Freshman Course*—The Life and Works of Jesus according to St. Mark, by W. D. Murray.

*Sophomore Course*—Life of Christ, with Harmony of the Gospels, by Sharmon and Burton.

*Junior Course*—Acts and Epistles, Records and Letters of the Apostolic Age, by Bosworth and Burton.

*Senior Course*—Studies in Old Testament Characters, by W. W. White.

Other courses will be added from time to time. As a help to these courses, the following books are recommended as references and parallel reading:

Schurer's "History of the Jews in the Time of Christ," five volumes.

Mathew's "History of New Testament Times in Palestine."

"Studies in Oriental Social Life," by Trumbull.

"Sketches of Jewish Social Life," by Edersheim.

"Historical Geography of the Holy Land," by George Adam Smith.

"Life and Times of Jesus, the Messiah," by Edersheim.

"The Student's Life of Christ," by Gilbert.

"Life of Christ," by Stalker.

*MISSION STUDY*—The mission study department offers four courses of study for 1909-1910, as follows:

*Freshman Course*—"Aliens or Americans?" by Howard B. Gorse.

*Sophomore Course*—"Daybreak in the Dark Continent," by Wilson S. Naylor.

*Junior Course*—"Dawn on the Hills of Tang," by Dr. Harlem P. Beach.

*Senior Course*—"Islam: A Challenge to Faith," by Dr. S. M. Zwemer.

As parallel readings, the following are recommended:

"The Evangelization of the World in This Generation," by John R. Mott.

"Social Evils in Non-Christian Lands," by Dennis.

"Effective Workers in Needy Fields."



"Call of the Homeland."

"Japan and Its Regeneration," by Otis Cary.

"McKay of Uganda," by J. W. Harrison.

**STUDENT VOLUNTEER MOVEMENT**—Another branch of the Missionary Department is the Student Volunteer Movement for Foreign Missions. This movement was organized in 1886 at Mt. Hermon, Mass. Its fourfold mission is (1) to lead students to a thorough consideration of the claims of foreign missions upon them as a life work; (2) to foster the purpose of all students who decide to become foreign missionaries, by helping to guide and stimulate them in mission study, and in work for missions until they pass under the immediate direction of the foreign boards; (3) to unite all volunteers in an organized, aggressive movement; (4) to create and maintain an intelligent, sympathetic, active interest in foreign missions among the students who are to remain at home, in order that they may back up this great enterprise by their prayers, their efforts, and their gifts. The movement holds an international convention every four years.

The Volunteer Band of the University was organized March 28, 1906, with six members. At present there are twelve members.

To those interested in missions, the following books and pamphlets are suggested:

"Supreme Decision."

"What Constitutes a Missionary Call."

"A Missionary Appeal to Students."

"The Pastor and Modern Missions."

"Heroes of the Mission Field."

"The Price of Africa."

"Princely Men of the Heavenly Kingdom."

**MEMBERSHIP**—Membership in the Association is of three kinds: Active, associate, and sustaining. Any man, either student or professor who is a member of an evangelical church, or accepts Jesus Christ as He is offered in the Scriptures as his God and Saviour, and approves of the objects of the Association, may become an active member.

Any man, either student, member of faculty, or instructor in the University, of good moral character, may become an associate member.

Any man desiring to aid in the support of the Association may become a sustaining member by contributing as much as \$5.00 to the work of the Association.

The annual dues for active and associate members are \$1.00.

**EQUIPMENT**—The equipment of the Y. M. C. A. consists of a suite of five rooms, composed of a lobby, an auditorium, and three small rooms for Bible and mission study. These are well furnished, lighted, heated, and supplied with the leading magazines and papers.

**BUREAU OF INFORMATION**—The Association conducts a bureau of information, and will always be glad to help any student desiring assistance. A reception committee meets all trains at the opening of school and assists the students in securing good boarding places. All correspondence during the summer in regard to the Association should be directed to the General Secretary.

**SOCIAL**—On the first night after the opening of the University a very informal reception will be given in the Y. M. C. A. rooms, to which all young men of the University are invited. Here all the men will have an opportunity to meet and get acquainted with each other.

The Y. M. C. A. Double Quartet furnishes special music for all religious meetings and social functions.

The annual reception is given by the Y. M. C. A. and Y. W. C. A. during the first week of school, to which all students and people of the town are invited.

The individual Bible classes will be entertained at various intervals during the year.

**INDORSEMENT**—The trustees and faculty of the University heartily recommend the work of the Association, and it is earnestly desired that every parent or guardian see to it that the student under his care be encouraged to join the Association as soon as he reaches the University.

### **YOUNG WOMEN'S CHRISTIAN ASSOCIATION.**

The Young Women's Christian Association, founded September 20, 1904, is composed of young women seeking to develop their Christian character, and to win others to Christ. Prayer meetings are held Saturday evenings, and the regular religious

services Sunday afternoon. During the past year the membership of the Association has been about one hundred and twenty, with nearly one hundred enrolled in Bible study and sixty-five in mission study. The Association gives several entertainments during the year, endeavoring through these to arouse a spirit of friendship among all the young women. The members of the Association will gladly assist in any way young women just entering the University.

### LITERARY SOCIETIES.

There are six literary societies: The Mathetian, founded in 1873; the<sup>2</sup>Garland, founded in 1886; the<sup>3</sup>Periclean, founded in 1901; the<sup>4</sup>Sapphic, founded in 1906; the<sup>5</sup>Lee, founded in 1906; the<sup>6</sup>Demosthenean, founded in 1907. The Mathetian society is composed of collegiate students of both sexes; the Garland, Periclean, Lee and Demosthenean societies, of male collegiate and preparatory students; the Sapphic, of female collegiate and preparatory students. The weekly meetings of the four societies afford excellent opportunities for improvement in composition, declamation, debate, etc.

### ELECTRICAL ENGINEERING SOCIETY.

The University of Arkansas Branch of the "American Institute of Electrical Engineers," which was established at the University in 1904, holds regular meetings on the first and third Tuesdays of each month.

Original papers are read, and advance copies of papers to be presented at the Institute meetings in New York are read and discussed. All students interested in electrical science are eligible to membership.

### DEUTSCHER VEREIN.

The Deutscher Verein, organized December 15, 1904, is composed of University teachers and students. Its object is to encourage the use of spoken German and promote the study of German life and literature. Meetings are held every three weeks in the parlors of Hill Hall.

### ENGLISH CLUB.

The English Club, founded February 9, 1905, consists of University teachers and advanced students of English. This society is now making a special study of spoken English. Papers relating to the different phases of English Philology are read at the meetings, which occur every other Thursday.

### CERCLE FRANCAIS.

The Cercle Francais was founded by Adjunct Professor Antonio Marinoni in 1905. Its object is to encourage the use of spoken French and promote the study of French life and literature. Meetings are held fortnightly in private houses.

### FACULTY RULES FOR THE GOVERNMENT OF ATHLETICS.

RULE 1. No one shall participate in any sport as a member of a team representing the University, unless he is a *bona fide* student doing full work in a regular or special course as defined in the catalogue.

RULE 2. No person shall be admitted to any athletic contest who receives any gift, remuneration, or pay for his services on the college team.

RULE 3. No student shall be permitted to participate in any athletic contest who is found to be delinquent in his studies.

RULE 4. The election of managers and captains of all athletic teams shall be subject to the approval of the faculty committee on Athletics.

RULE 5. Before every athletic contest in which the University team is to be engaged, the captain of such team shall submit to the chairman of the faculty committee on athletics a list of the players eligible under the rules to participate in said contest. It shall be the duty of the captain to exclude all players from the contest except those so certified.

RULE 6. The faculty committee on athletics shall require each candidate for a team to represent the University to subscribe to a statement that he is eligible under the letter and spirit of the rules adopted by the faculty.

RULE 7. No person having been a member of a college athletic team during any year and having been in attendance less than one college half year shall be permitted to play on any



athletic team thereafter until he shall have been in attendance six consecutive calendar months.

RULE 8. It shall be the duty of the chairman of the faculty committee on athletics to secure a report from instructors in all subjects taken by members of Athletic teams at the middle and end of each month, and to report to the faculty such cases as the committee deems advisable.

RULE 9. Any student failing on one-half of his work in any term, will not be allowed to take part in athletic events, as a member of a team, during the next succeeding term, unless such deficiency has been made up.

### SECRET SOCIETIES.

The following rules for the regulation of secret societies have been adopted by the faculty:

1. No student shall be initiated in any secret student organization, whether it be a Greek letter fraternity, sorority, or other secret society, until he shall have been officially informed by the recorder of grades that he has completed all the work preparatory to admission into the Freshman class of the University and has completed the equivalent of not less than fifteen hours of collegiate work for one term; and provided, that students who are taking special courses, short courses, or who may be candidates for the L. I. certificate may be initiated if they are entitled, to entrance and collegiate credits equal to the above requirements.

2. Any Greek letter fraternity or other secret organization that shall pledge for membership or initiate any student until he has complied with the aforesaid conditions shall thereby forfeit its right to exist and shall no longer exist in the University of Arkansas.

3. If any fraternity shall permit its members to drink wine, whisky, beer or other intoxicants in its chapter house or meeting place, or allow such liquors to be kept or stored there, or shall permit any gambling or other violation of law therein or shall keep a disorderly house or place, such fraternity shall be cited for trial before the faculty, and upon proof being adduced establishing any of the above mentioned offenses, such fraternity shall not be allowed to exist longer under its own name or under any other form or name in the University of Arkansas.

## PRIZES

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### THE WILLIAM JENNINGS BRYAN PRIZE.

A prize fund of \$250 has been bestowed upon the University through the liberality of Hon. W. J. Bryan, of Nebraska, and a prize named in his honor and consisting of the annual income of this fund will be offered each year, provided that productions worthy of its bestowal are presented.

The prize will be awarded for the best essay on some topic relating to the problems of government, and the subjects for competition will be selected in the alternate years by the department of economics and sociology, and the department of history. The contest will be open to students who have junior or senior standing, more than half of whose work has been of the Grade G, and to special students in the collegiate department who have thirty-two hours' credit of a similar grade.

The subject for the year 1909-1910 will be announced in September, 1909. Further details of the plans of competition may be obtained from the professor of economic and sociology. The competitive essay must be submitted by the first of May, 1910.

### THE JOHNSON PRIZE.

Professor W. S. Johnson offers a valuable loving cup to be competed for in an oratorical contest open to the members of the literary societies.

### BROUGH DEBATING MEDAL.

Professor Charles Hillman Brough, of the department of economics and sociology, offers a medal of the value of \$20, or \$20 in money, as a prize for excellence in debate, to be contested for by two representatives from each of the literary societies of the University. Two debates are held during the session; one a formal, in which the speeches are prepared, and valued at sixty per cent; the other, an informal, in which the speeches are impromptu, and valued at forty per cent. These debates are designed to train students of the University in the art of forensic speaking, and to promote a friendly rivalry among the literary societies.

### PRIZE IN THE PERICLEAN SOCIETY.

Miss Naomi Josephine Williams, instructor in the preparatory school, offers a prize for the best oration written and delivered by a member of the Periclean Society.

### PHILBECK PRIZE.

Instructor Robert Edward Philbeck, '00, offers a valuable prize to that member of the Garland Literary Society who delivers the best original oration.

### THE EDISON MEDAL.

The Edison Medal Association was founded by the friends and admirers of the great inventor, and in the language of the deed of gift, "was organized for the purpose of properly recounting and celebrating the achievements of a quarter of a century in the art of electric lighting, with which the name of Thomas Alva Edison is imperishably identified," and this purpose was given effect by the "establishment of an Edison medal, which should, during the centuries to come, serve as an honorable incentive to the youth of America to maintain by their works the high standard of accomplishment set by the illustrious man whose name and features shall live while human intelligence continues to inhabit the world."

The medal is awarded each year by a committee of the American Institute of Electrical Engineers for the best thesis or record of research on theoretical or applied electricity or magnetism. Theses or records of research may be submitted by a graduating student from any college or university in the United States or Canada, whose course of study includes the branch of electrical engineering.

### THE WINGO MEDAL.

Hon. Otis T. Wingo, of De Queen, Arkansas, a member of the State Senate, offers a medal of the value of ten dollars for the best declamation. All male students are eligible to compete for this medal.

### THE TILLMAN MEDAL.

President John N. Tillman offers a gold medal for the best essay by any member of the Sapphic Society.

## CHAPEL EXERCISES

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Religious exercises, conducted by Mr. B. W. Dickson, General Secretary of the Y. M. C. A., or by an invited clergyman, are held in the University chapel every morning at twenty minutes past eight.

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## CHURCHES

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The churches of Fayetteville cordially welcome the students to their Sunday Schools and various meetings of prayer and religious instruction. Many students are actively engaged in the work of the different church societies and guilds.

The pastors of the city are actively interested in the spiritual welfare of the students. There follows a list of the local churches and pastors, with the addresses of the latter:

*Baptist*—Rev. W. A. Whittle, 241 N. College Ave.

*Christian (First)*—Rev. W. S. Lockhart, 228 W. Center St.

*Christian (Second)*—Rev. John Hinds, Hill St.

*Central Presbyterian*—Rev. M. L. Gillespie, 308 W. Charles St.

*Methodist Episcopal*—Rev. J. F. Ross, cor. W. Rock and School Sts.

*Methodist Episcopal, South*—Rev. J. W. Herring, 309 Highland Ave.

*Methodist Protestant*—Rev. J. H. Kilgore, Leverett St.

*First Presbyterian*—Rev. R. B. Willis.

*Protestant Episcopal*—Rev. T. D. Windiate, N. College Ave.

*Roman Catholic*—Father Patrick H. Boyle, 354 N. Willow St.

*Seventh Day Adventist*—



## DEGREES

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The following degrees are conferred by the University:

For undergraduate work:

- Bachelor of Arts (B. A.).
- Bachelor of Civil Engineering (B. C. E.).
- Bachelor of Mechanical Engineering (B. M. E.).
- Bachelor of Electrical Engineering (B. E. E.).
- Bachelor of Mining Engineering (B. Mi. E.).
- Bachelor of Chemical Engineering (B. Ch. E.).
- Bachelor of Science in Chemistry (B. S. C.).
- Bachelor of Science in Agriculture (B. S. A.).
- Bachelor of Science in Physics (B. S. in Phys.).
- Bachelor of Science in Cement Engineering (B. S. in Cem. Eng.).

For graduate work:

- Master of Arts (M. A.).
- Master of Science (M. S.).
- Mechanical Engineer (M. E.).
- Civil Engineer (C. E.).
- Electrical Engineer (E. E.).
- Chemical Engineer (Ch. E.).

All the courses leading to the different bachelor's degrees are based on four years of collegiate work. The B. A. course is designed to give the student liberal culture; while the engineering and scientific courses are technical. The B. A. course is almost entirely elective, certain safeguards and restrictions being thrown around the student's choice of electives; the technical courses necessarily consist principally of prescribed work.

For the announcements of the several collegiate departments see pp. 86-130. College of Agriculture, pp. 131-143.

# Courses of Study for the Collegiate Degrees

## B. A. COURSE.

FRESHMAN.	Periods.	SOPHOMORE.	Periods.
English.....	3	English.....	3
A Foreign Language.....	3 or 4	The Foreign Language Pursued in Freshman Year..	3
From Group II.....	3 or 4	From Group II.....	3
From Group III.....	3	From Group III.....	3
Elective.....	2, 3 or 4	Elective.....	4
Total.....	16	Total.....	16

JUNIOR.	Periods.	SENIOR.	Periods.
Elective.....	16	Elective.....	16

NOTE.—A period means one recitation per week throughout a college year, or the equivalent in laboratory work. (See page 52.)

## Conditions.

1. Sixty-four periods are required for graduation.
2. At or before the beginning of the Junior year the students shall elect a major subject, and 24 periods of the 64 required for graduation shall be subject to the approval of the professor in charge of the major subject. Not more than 18 periods may be taken in any subject, and not more than 36 periods in any group.
3. Candidates for the B. A. degree shall choose their major subject from group I, II or III, and shall offer not fewer than 9 periods for each of these groups. Not more than 9 periods may be offered from group IV. In the foreign language pursued in the Freshman year the equivalent of two years' work must be offered for admission.
4. In addition to the requirements above mentioned, military science and tactics will be required of male students, or, whenever they are excused, one period per year in other work. One period per year in music, art, elocution, physical culture, or other work, will be required of female students.

**Groups.**

I. Greek, Latin, English, German, French, Spanish, Italian.

II. Mathematics, Astronomy, Chemistry, Physics, Geology, Biology.

III. History, Philosophy, Political Science, Economics, Sociology, Pedagogy.

IV. Mechanical, Civil, Electrical, Chemical and Mining Engineering, Horticulture, Agriculture.

# COURSE IN MECHANICAL ENGINEERING FOR THE DEGREE OF B. M. E.

FRESHMAN YEAR.	Hrs. per week.	SOPHOMORE YEAR.	Hrs. per week.
Mathematics 1c, Algebra, first term; Geometry, second term	3	Mathematics 4a, Plane Trigonometry, Analytic Geometry..	3
Mathematics 2c, Plane Trigonometry, first term; Analytic Geometry, second term.....	3	Mathematics 4b, Calculus.....	3
English 1, English Composition	3	Mechanical Drawing, M. E. 2b..	2
Chemistry 1 .....	3	Descriptive Geometry, C. E. 1, two hours, first term.....	1
Mechanical Drawing, M. E. 2a..	2	C. E. 2 and 3 or a Language.....	3
Shop Work .....	2	Shop Work.....	2

JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Mathematics 6b, Algebra and Calculus .....	2	Machine Design, M. E. 7.....	4
Machine Design, M. E. 3 .....	3	Mechanical Laboratory, M. E. 8	2
M. E. 4, Theoretical Mechanics, first term; Mechanics' Material, second term.....	4	Hydraulic Machinery, M. E. 9, two hours per week, first term	1
M. E. 5, Steam Engines and Boilers, first term; Gas Engine and Producers, second term..	3	Electrical Laboratory, E. E. 5..	2
Mechanical Laboratory, M. E. 6	2	Electrical Machinery, E. E. 7...	3
Hydraulics, M. E. 9, two hours per week, second term.....	1	Elective .....	4
Shop Work .....	2	Thesis .....	.....

All elective courses are subject to the approval of the professor of Mechanical Engineering.

A description of the courses offered in the Department of Mechanical Engineering will be found on pages 118-121.



### COURSE IN CIVIL ENGINEERING FOR THE DEGREE OF B. C. E.

FRESHMAN YEAR.	Hrs. per week.	SOPHOMORE YEAR.	Hrs. per week.
Mathematics 1c, Algebra, first term.....	3	C. E. 2 and 3, Surveying.....	3
Solid Geometry, second term...	3	Mathematics 4a, Analytic Geometry and Plane Trigonometry.....	3
Mathematics 2c, Plane Trigonometry, first term.....	3	Mathematics 4b, Differential and Integral Calculus.....	2
Analytic Geometry, second term	3	English 2, French 1, German 1, or Spanish 1.....	3
General Chemistry.....	3	Physics 1.....	3
C. E. 8, Lettering.....	2	C. E. 1, Descriptive Geometry, first term.....	2
C. E. 1a, Drawing.....	2	C. E. 4, Highway Construction, second term.....	1
English 1.....	3	C. E. 4a, Architectural Drawing, second term.....	1

JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Mathematics 6b, Algebra and Calculus.....	2	C. E. 15, Field Practice.....	2
M. E. 4, Mechanics.....	4	C. E. 14, Engineering Laboratory, first term.....	2
C. E. 5, Railroad Engineering...	2	C. E. 11, Sanitary Engineering, first term.....	2
C. E. 6, Field Practice.....	2	C. E. 12, Technical Drawing....	2
C. E. 8a, Technical Drawing...	2	C. E. 13, Waterworks Construction, second term.....	3
M. E. 9, Hydraulics, second term.....	2	C. E. 9, Masonry Construction, first term.....	2
*Elective.....	2	C. E. 10, Roofs and Bridges....	4 & 3
		Geology 5, Blowpipe Analysis, second term.....	2
		*Elective.....	3
		Thesis.....	.....

\*Electives can be taken only on the approval of the professor of Civil Engineering.

# **COURSE IN ELECTRICAL ENGINEERING FOR THE DEGREE OF B. E. E.**

FRESHMAN YEAR	Hrs. per week.	SOPHOMORE YEAR.	Hrs. per week.
Mathematics 1c, Algebra, first term; Solid Geometry, second term.....	3	Mathematics 4a, Plane Trigonometry, Analytic Geometry..	3
Mathematics 2c, Plane Trigonometry, first term; Analytic Geometry, second term.....	3	Mathematics 4b, Calculus.....	2
English 1, English Composition.	3	Chemistry 1, General Chemistry	3
Physics 1, General Physics .....	3	Physics 2, Advanced General Physics .....	3
E. E. 2, Drawing.....	2	Physics 2a, Laboratory Work...	2
M. E. 1d, b, Shop Work.....	1½	M. E. 1c, e, Shop Work.....	1½
		E. E. 2a, Drawing.....	2

JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Mathematics 6b, Algebra and Calculus .....	2	E. E. 8, Alternate Current Theory, and E. E. 9, Polyphase Electric Currents.....	3
English 2, or French 1, or German 1, or Spanish 1.....	3	E. E. 6, Electrical Laboratory..	2
E. E. 7, Dynamo Electric Machinery .....	3	E. E. 4, Technical Drawing....	2
E. E. 3, Technical Drawing....	2	E. E. 11, Telephony and Telegraphy .....	2
M. E. 4, Mechanics .....	4	M. E. 5, Steam Machinery, first term.....	3
E. E. 5, Electrical Laboratory..	2	M. E. 6, Mechanical Laboratory, first term, and E. E. 10, Electric Railways, second term...	2
		Elective.....	2 & 5
		Thesis.....	2

COURSE IN CHEMICAL ENGINEERING LEADING  
TO THE DEGREE OF B. CH. E.

FRESHMAN YEAR.	Hrs. per week.	SOPHOMORE YEAR.	Hrs. per week.
Mathematics 1c.....	4	Mathematics 4a and 4b.....	5
Mathematics 2c.....	2	Chemistry 2 and 2a.....	2½
Chemistry 1 and.....		Chemistry 5 and 6.....	3
Chemistry 5, second term.....	3½	Physics 1 and 1a.....	3½
M. E. 1b, 1c, 1d.....	3	M. E. 1e.....	1
M. E. 2.....	2	English 2 or.....	3
English 1.....	3	German 1.....	

JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Mathematics 6b, first term.....	2	Chemistry 8.....	3
Chemistry 3 and 3a.....	4	Chemistry 11.....	1½
Chemistry 7.....	3	Chemistry 13.....	1½
M. E. 3.....	3	M. E. 5.....	3
M. E. 4.....	4	E. E. 5.....	2
M. E. 6.....	2	C. E. 11, first term.....	1
		Business Law, one term.....	1½
		Thesis.....	
		Journal Meeting (Chemistry 16).....	
		English 2 or French 1.....	3

N. B.—Certain substitutions may be permitted at the discretion of the classification committee.

# COURSE IN CHEMISTRY FOR THE DEGREE OF B. S. IN CHEMISTRY.

FRESHMAN YEAR.	Hrs. per week.	SOPHOMORE YEAR.	Hrs. per week.
Mathematics 1c and 2c.....	6	Chemistry 2.....	2
Physics 1 and 1a.....	3½	Chemistry 6.....	3-5
Chemistry 1 and Chemistry 5, second term.....	3½	French 1.....	3
English 1.....	3	Drawing 1a.....	2
German 1.....	3	And from 6 to 8 hours of the following:	
		Chemistry 2a.....	2
		Mathematics 4a and 4b.....	5
		Biology 1.....	3
		Geology 2.....	3
		Economics 1.....	3
		History 3a or 3b.....	1½
		English 2.....	2
		German 2.....	3

JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Chemistry 3.....	2	Chemistry 6.....	3-5
Chemistry 7.....	3-5	Chemistry 13.....	1½
Chemistry 8.....	1½	Chemistry 16 (Journal Meet- ing).....	
Chemistry 14.....	1	Thesis.....	
Physics 2 and 2a.....	4	And from 9 to 11 hours of the following:	
And from 5 to 7 hours of the following:		Chemistry 4.....	3
Chemistry 3a.....	2	Chemistry 4a.....	1-3
Chemistry 8a.....	1-2	Chemistry 9, 10 or 12.....	2-4
Mathematics 6b.....	2	Physics 4 or 5.....	1
Geology 5a and 5b.....	3	Biology 7 or 8.....	4-5
Biology 4.....	4	Geology 7 or 9.....	1-3
Scientific French.....	2	Mathematics 9a.....	1½
Scientific German.....	2	English 4.....	2
Shop Work.....	1-2	History 4a or 4b.....	1
		Business Law.....	1½



# COURSE IN MINING ENGINEERING FOR THE DEGREE OF B. Mi. E.

FRESHMAN YEAR.	Hrs. per week.	SOPHOMORE YEAR.	Hrs. per week.
Chemistry 1 and 3, General Inorganic Chemistry and Qualitative Analysis.....	3	Chemistry 2 and 5, Advanced Inorganic Chemistry and Qualitative Analysis.....	3
C. E. 1a, Special Drawing.....	2	C. E. 1, Descriptive Geometry, two hours, first term.....	1
English 1, English Composition.....	3	Geology 2, General Geology.....	3
Mathematics 1b and 2a, Algebra and Solid Geometry, Trigonometry and Analytic Geometry.....	6	Geology 5, Crystallography, Mineralogy, and Blowpipe Analysis.....	3
Physics 1, General Physics.....	3	Mathematics 4a and 4b, Analytical Geometry, Trigonometry and Calculus.....	5
		Mining 1, Elementary Mining, two hours, second term.....	1

JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Chemistry 6, Quantitative Analysis, three hours, first term.....	1½	Chemistry 7, Quantitative Analysis.....	2
C. E. 2 and 3, Surveying.....	3	E. E. 5, Electrical Laboratory, two hours, first term.....	1
E. E. 12, Direct Current Machinery, three hours, first term and Geology 3; Field Work, three hours, second term.....	3	M. E. 5, Steam Engines, three hours, first term and Geology 7; Economic Geology, three hours, second term.....	3
M. E. 4, Mechanics.....	4	Geology 9, Descriptive Mineralogy, one hour, first term, and Metallurgy 2; Assaying, three hours, second term.....	2
M. E. 9, Hydraulics, two hours, second term.....	1	Metallurgy 1, General Metallurgy.....	3
Geology 8, Rocks and Metamorphism, two hours, second term.....	1	Mining 3, Advanced Mining.....	3
Mining 2, Details of Mining.....	2	Mining 4, Engineering Problems of Mining.....	3
*Elective.....	2	Mining 8, Ore Dressing.....	2

\*Electives can be taken only on the approval of the department of Geology and Mining.

**COURSE IN CEMENT ENGINEERING FOR THE DEGREE  
OF BACHELOR OF SCIENCE IN CEMENT  
ENGINEERING.**

FRESHMAN YEAR.	Hrs. per week.	SOPHOMORE YEAR.	Hrs. per week.
*Chem. 1 and 5, General Chem- istry and Qualitative Analysis	3	Chem. 2 and 5, Inorganic Chem- istry and Qualitative Analysis	4
English 1, English Composition	3	C. E. 1, Descriptive Geometry, first term and Geology 5b, Mineralogy, second term.....	2
Math. 1b and 2a, Algebra, Solid Geometry, Trigonometry and Analytic Geometry.....	6	Geology 2, General Geology....	3
M. E. 1, Shop Work.....	2	Math. 4a and 4b, Analytic Geom- etry, Trigonometry and Cal- culus.....	5
M. E. 2a, Mechanical Drawing.	2	Physics 1 and 1a, General Physics.....	3½

JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Cement 1, Outline of Cement Manufacture and the Geology of Cement Materials, first term and Geology 3; Field Work on Cement Materials, second term.....	3	Cement 2, Cement Machinery and Design of Plant.....	3½
Chemistry 5, Quantitative Analysis.....	2	Chem. 5, Special Quantitative Analysis.....	2
C. E. 12, Masonry Construction, first term and Mining 1; Ele- mentary Mining, second term	2	E. E. 5, Electrical Laboratory.	2
E. E. 12, Electrical Machinery.	3	M. E. 5, Steam and Gas Engines	3
M. E. 4, Mechanics.....	3	Metallurgy 1, General Metal- lurgy, first term and Geology 9; Advanced Mineralogy, sec- ond term.....	2½
Elective.....	4	Elective.....	3

\*Chem. indicates Chemistry; Math., Mathematics; C. E., Civil Engineer-  
ing; E. E., Electrical Engineering, and M. E., Mechanical Engineering. The  
figures after the names are the numbers of the courses as given in the catalogue.

## COURSE FOR THE DEGREE OF B. S. IN PHYSICS.\*

FRESHMAN YEAR.	Hrs. per week.	SOPHOMORE YEAR.	Hrs. per week.
Mathematics 1c, 2c.....	6	Mathematics 4a, 4b.....	5
Physics 1.....	3	Physics 2, 2a, 3.....	5
Chemistry 1.....	3	Chemistry 2, 3, 5.....	5
English 1.....	3	French 1.....	3
German 1.....	3		

JUNIOR YEAR.	Hrs. per week.	SENIOR YEAR.	Hrs. per week.
Mathematics 6b, 9a, b, 16.....	7	Mathematics 18.....	3
Physics 4, 5, 10.....	4	Physics 6, 7, 8, 11.....	10
Chemistry 8.....	1½	Chemistry 12.....	1½
E. E. 5, 12.....	3½	E. E. 6, 8.....	3½
C. E. 1.....	1	Thesis.....	
Scientific German and French..	1	Journal Meeting.....	
Journal Meeting.....			

\*This course began in September, 1908; only the first two years can be offered at present.

## Requirements for the Degrees of Master of Arts and Master of Science

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1. That before a student is admitted to candidacy for a master's degree he shall have received the corresponding bachelor's degree from this University or another institution in which the course of study is fully equivalent.

2. That not less than one year intervene between the conferring of the bachelor's and master's degree.

3. That a course of study in one major, and not more than two minor, subjects, aggregating with a \*thesis sixteen hours, be pursued in residence, and that fourteen or sixteen hours be taken regularly in the class room.

4. That the major subject, occupying, with the thesis, eight hours, shall be at least third-year work in a subject in which the candidate has at least six hours' credit.

5. That six hours additional work shall be selected in not more than two closely related subjects, in each of which the candidate must have received at least six hours' credit.

6. That all work credited towards a master's degree must be done after the corresponding bachelor's degree has been received.

7. That in computing credit for a master's degree three hours of laboratory work shall be equivalent to one hour of recitation.

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\*See page 80.



## Requirements for the Degrees of C. E., M. E., E. E., and Ch. E.

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These courses of study are intended to give those students who have finished an undergraduate course in engineering additional preparation to some special line of work to which their previous study has led. The student will have all reasonable liberty in selecting such specialties and will be limited only by certain general requirements. He will be required at the beginning of the year to make up the course which he proposes to follow, and to present it, approved by the instructors concerned, to the faculty. If accepted, it will be subject to change only by the faculty. In general, it is expected that these courses shall comprise one principal subject based on the course already pursued, and two secondary subjects, one or both of which should be closely related to the principal. The graduate course should amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above-mentioned degrees must be submitted to the faculty for approval before the middle of the second term.

These degrees will also be given to graduates in civil, mechanical, electrical, and chemical engineering, who have been in successful practice of their profession for three years, and who have submitted a satisfactory thesis on a subject approved by the professor in charge.

*Charges*—Graduate students pay ten dollars for matriculation and registration, ten dollars for tuition (non-residents, five dollars) at the beginning of each session, and ten dollars in advance for the final examination. Students who fail to comply with any of these requirements, or who do not each year complete the equivalent of two terms' work in one subject, will be dropped from the rolls. Should such students desire to resume their studies, they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is five dollars in advance in each case.

Graduates attending only undergraduate classes pay the same fee as undergraduates.

Non-resident students have such assistance and instruction in their studies as can be conveniently given by correspondence.

## REQUIREMENTS FOR THESES

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1. Thesis subjects shall be submitted by December 15th of the year of graduation.

2. For a bachelor's thesis the minimum requirement shall be 2,500 words.

3. The thesis for the master's degree shall present the results of research, and shall be given a credit of two hours.

4. The thesis shall be submitted for criticism and approval to a committee of three, consisting of the professor under whom the candidate is doing his thesis work and two others appointed by the President. Theses must be submitted to the committee by May 10th of the year of graduation.

5. All theses shall be neatly typewritten on paper 8x10 inches with a one inch margin. The title shall read:

Subject .....

Thesis submitted by .....to the faculty of the  
University of Arkansas in fulfilment of the requirement for the  
degree of .....

Date .....

## COURSES OF STUDY LEADING TO CERTIFICATES

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In pedagogy, mechanical engineering and electrical engineering there are the following courses of study, the completion of which entitles the student to a certificate:

### NORMAL COURSE.

The certificate of Licentiate of Instruction (L. I.) has been established by the board of trustees as a testimonial of one's knowledge of educational principles, and proficiency in the art of teaching. There are two conditions upon which the certificate of licentiate instruction is granted:

*First.* To those who complete either of the prescribed courses of study as given on p. 83.

*Second.* To those who elect their major in the department of philosophy and pedagogy. This requires a credit of eleven hours in pedagogy.

*Third.* Where suitable arrangements can be made with the professor in charge of a major subject, one may elect his major in another department and yet receive the L. I. at the same time that he receives his A. B. degree.

### Normal Diploma a License to Teach.

The following is the law relating to the Normal Diploma:  
*Be it Enacted by the General Assembly of Arkansas:*

"SECTION I. That the diplomas from the teachers' training department of the University of Arkansas shall be equivalent to a teacher's professional license, which shall entitle the holder to teach in any public school in the State of Arkansas for a period of six years from and after the date of issue, and at the expiration of that said diploma may be converted into a life certificate, provided the character of the work done by the holder thereof and

his or her moral character meet with the approval of the State Superintendent of Public Instruction of the State of Arkansas.

"SEC. 2. That this Act be in full force from and after its passage."

The foregoing law entitles the graduates of the University normal department to teach in any county in the State for a period of six years; and if the character of the work done is satisfactory to the State Superintendent of Public Instruction, the certificate of Licentiate of Instruction will be controverted into a life certificate. This offers special inducements to those who anticipate teaching to attend the University normal department until they have been granted this certificate.

All the literary work required in the normal courses is done by the professors in the regular bachelor's courses.

The normal department has a well equipped training school in which all senior normal students are required to do daily practice teaching under the guidance of a critic teacher.

### **Admission to the University Normal Course.**

The course of study covers three years, the first one of which may be done in the various high schools accredited to the University, or in other schools of equal rank.

Those holding teachers' licenses and public school certificates will not be examined in those subjects named in the certificates.

The requirements for admission to the first year class are the same as those required for admission to the Preparatory School. See page 40.



Normal Course with Science.		Normal Course with Latin.	
FIRST YEAR.	Hrs. per week.	FIRST YEAR.	Hrs. per week.
Algebra .....	2	Algebra .....	2
Plane Geometry .....	4	Plane Geometry .....	4
English (Rhetoric) .....	4	English (Rhetoric) .....	4
Greek and Roman History .....	3	Greek and Roman History .....	3
Latin (Cæsar) .....	4	Elementary Physics .....	2
Elementary Pedagogy .....	1	Elementary Pedagogy .....	1
Total .....	18*	Total .....	16*
SECOND YEAR.	Hrs. per week.	SECOND YEAR.	Hrs. per week.
English 1 .....	3	English 1 .....	3
History 2 .....	3	Latin 1 .....	4
Agriculture 1 .....	3	Pedagogy 1 and 4 .....	3
Pedagogy 1 and 4 .....	3	Pedagogy 3 .....	2
Pedagogy 3 .....	2	Agriculture 1 .....	3
Elective .....	3	Physical Culture .....	1
Physical Culture .....	1	Total .....	16
Total .....	18		
THIRD YEAR.	Hrs. per week.	THIRD YEAR.	Hrs. per week.
English 2 .....	3	English 2 .....	3
Pedagogy 5 .....	4	Mathematics 1 .....	4
Pedagogy 6 .....	2	Pedagogy 5 .....	4
Singing and Drawing .....	1	Pedagogy 6 .....	2
Science (Elective) .....	3	Elective .....	3
Elective .....	3	Class Elocution .....	1
Class Elocution .....	1	Singing and Drawing .....	1
Total .....	17	Total .....	18

\*NOTE.—To enter the second year class, enough of other studies must be offered so as to bring it up to  $11\frac{1}{2}$  units, the requirements for admission to the Freshman class. See page 40.

All the work done in the foregoing courses, excepting singing, and elocution, and drawing, may be credited on the B. A. course. After having completed the normal course, one may, after two years of further study, receive the B. A. degree, provided he has fulfilled the requirements as stated on pages 68-69. The completion of the first year in either of the foregoing courses is presumed to prepare one to pass the examination for the professional license, issued by the State Superintendent of Public Instruction.

## MECHANIC ARTS COURSE.

This course of two years is designed to meet the wants of two classes of young men:

*First.* Those who are not able to spend the time required for the completion of the four years' course.

*Second.* Those who lack the necessary preparation for admission to the collegiate classes, and do not wish to become candidates for a degree.

Special attention is given to instruction in shop work and drawing, sufficient time being given to the former to enable a student to become familiar with its branches, and to acquire proficiency in some chosen one. The time spent in the drawing room will enable the student to make and understand machine drawings.

In the last year the technical instruction is designed to give such an elementary knowledge of mechanics, machine design and steam machinery as will enable the student to use and care for machinery intelligently. No diploma is awarded, but a certificate will be given on the completion of the course.

Students taking the mechanic arts course will be prepared to enter the Freshman class in engineering at the end of the first year if they complete second year English and can pass the examination on United States History.

## COURSE FOR CERTIFICATE IN MECHANIC ARTS.

FIRST YEAR.	Hrs. per week.	SECOND YEAR.	Hrs. per week.
Mathematics, Preparatory....	6	M. E. 3, Machine Design.....	5
M. E. 2a, Mechanical Drawing.....	2	M. E. 5a, Steam Machinery..	5
M. E. 4a, Mechanics and Hydraulics.....	3	M. E. 6, Mechanical Laboratory.....	2
Preparatory Physics.....	2	E. E. 5, Electrical Laboratory	2
Shop Work.....	3	E. E. 12, Electrical Machinery	3
		Shop Work.....	3

### \*SHORT COURSE IN ELECTRICAL ENGINEERING.

This course prepares students for practical work, such as constructing, operating, superintending, or managing lighting, power or manufacturing plants. It does not lead to a degree, but a suitable certificate will be given on completion of the work.

#### Course for Certificate in Electrical Engineering.

FIRST YEAR.	Hrs. per week.	SECOND YEAR.	Hrs. per week.
E. E. 1; Electrical Engineering.	5	E. E. 12; Electrical Machinery.	3
E. E. 2; Drawing.....	2	E. E. 2a; Technical Drawing...	2
M. E. 1d, b; Shop Work.....	2	E. E. 5; Electrical Laboratory.	2
Mathematics; Preparatory, Plane Geometry.....	5	M. E. 5a; Steam Engines and Boilers.....	3
		M. E. 1c, e; Shop Work.....	2
		Mathematics 1c; Algebra, first term; Solid Geometry, second term.....	3
		Mathematics 2c; Plane Trig- onometry, first term; Ana- lytic Geometry, second term.	3

\*Candidates for this course should be at least sixteen years old, and have a fair knowledge of the common school branches. They must meet the requirements for admission to the preparatory class in mathematics.

## \*DESCRIPTION OF COLLEGIATE COURSES

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### ANCIENT LANGUAGES.

J. C. FUTRALL, *Professor.*

JOHN J. JAMES, *Adjunct Professor.*

### LATIN.

For students entering with only three units in Latin (see page 44 of this catalogue) courses 1 and 1a are provided. Students presenting four units for entrance will be admitted to course 2, but will be required to satisfy the professor of their proficiency in course 1a, or to pursue that course with the class.

Students who desire recommendations as teachers of Latin in the high schools of the State must have credit for courses 1, 1a, 2, 2a, 3a, and either 3 or 4.

1. CICERO'S ORATIONS AND LETTERS, AND VIRGIL (3)—A review of the forms; drill in the syntax of noun and verb; the prosody of Virgil. *No credit will be given for this course until course 1a has been passed.* M. Tu. Th. 1, 2, and 3.

ADJUNCT PROFESSOR JAMES.

1a. PROSE COMPOSITION (1)—Designed to accompany course 1. Bennett's Latin Writer completed, with additional exercises prepared by the instructor. W. 1, 2, and 3.

ADJUNCT PROFESSOR JAMES.

2. CICERO AND LIVY (3)—Cicero's *de Officiis*; Livy, *Burton's Selections*; sight reading; Roman literature. *Prerequisite: Courses 1 and 1a.* M. W. F. 3.

PROFESSOR FUTRALL.

*Text-books.* Bennett's and Gildersleeve's Grammars; Wilkins' *Primer of Roman Literature*; Crutwell's *Roman Literature*. Any approved edition of the Latin authors may be used, except when certain editions are prescribed. *Lexicons:* Harper, Lewis, White.

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\*The number to the left of the description of a course is the number of the course; the number to the right is the number of hours per week that the course is given. In general, two hours of laboratory work are considered as the equivalent of one hour of recitation. Thus a course that has two hours per week of recitation work and two hours of laboratory work is a three-hour course. Unless the contrary is stated in the description of a course, all courses run throughout the year. No professor is required to teach an elective course unless it is applied for by at least five students.



2a. PROSE COMPOSITION (1)—Nutting's Supplementary Latin Composition. *Prerequisite: Courses 1 and 1a.* Th. 3.

PROFESSOR FUTRALL.

3. ROMAN PUBLIC AND PRIVATE LIFE (2)—Selections from Cicero, Pliny, Juvenal, and Martial. *Prerequisite: Course 2.* Tu. Th. 4.

PROFESSOR FUTRALL.

3a. PROSE COMPOSITION (1)—The translation of connected passages of idiomatic English into idiomatic Latin. *Prerequisite: Courses 2 and 2a.* W. 4.

PROFESSOR FUTRALL.

4. HORACE AND TACITUS (2)—Horace, Odes and Epodes; Tacitus, Annals; parallel and sight reading; the metres of Horace. *Prerequisite: Courses 2 and 2a.* T. 3; F. 4.

PROFESSOR FUTRALL.

5. ROMAN POETS (3)—Readings will be taken from Plautus, Terence, Catullus, Horace, Juvenal, and others, and the attention of the student will be directed rather to the literary side of the authors read than to grammatical and syntactical peculiarities. The metres of Plautus and Terence will be carefully studied. Course 5 may be taken twice and counted towards a degree, as the readings will be changed in successive years. *Prerequisite: Courses 2a and 3 or 4.*

PROFESSOR FUTRALL.

## GREEK.

Courses 1 and 2 are designed to give to students who do not present entrance credits in Greek an opportunity to begin the study of the language. Those having an entrance credit of three units will be admitted to course 3.

1. ELEMENTARY COURSE (4)—White's Beginner's Greek Book, with selection from Xenophon's Anabasis. A thorough mastery of the forms and constructions given in this book is required. M. T. W. Th. 4.

ADJUNCT PROFESSOR JAMES.

2. XENOPHON AND LYSIAS (4)—This course is intended to familiarize the student with all the ordinary Attic forms and constructions; frequent exercises in oral and written translation of English into Greek, based upon the text read, are given, and some practice in sight reading; Goodwin's Grammar. *Prerequisite: Course 1.* M. W. Th. F. 6.

ADJUNCT PROFESSOR JAMES.

3. HOMER AND PLATO (3)—Systematic study of the grammar; prose composition; Greek literature; sight reading. *Prerequisite: Course 2.* M. 4, Th. F. 2. PROFESSOR FUTRALL.

4. GREEK HISTORIANS (2)—Selections from Herodotus and Thucydides. *Prerequisite: Course 3.* PROFESSOR FUTRALL.

5. ADVANCED PROSE COMPOSITION (1)—Weekly written exercises. *Prerequisite: Course 3.* PROFESSOR FUTRALL.

6. THE ATTIC DRAMA (3)—Readings from Æschylus, Euripides, Sophocles, and Aristophanes. *Prerequisite: Course 3.* PROFESSOR FUTRALL.

*Text-books.* Goodwin's Revised Greek Grammar; Goodwin's Greek Moods and Tenses; Collar and Daniell's Prose Composition; Higley's Exercises in Greek Composition. Any approved edition of the Greek authors may be used except when certain editions are prescribed. Liddell and Scott's Lexicons are recommended.

## ENGLISH.

E. F. SHANNON, *Professor.*

GARLAND GREEVER, *Associate Professor.*

MRS. E. M. BLAKE, *Instructor.*

JOELLE HOLCOMB, *Instructor.*

## Freshman Year.

I. ELEMENTARY COMPOSITION AND LITERARY HISTORY (1)—A. S. Hill's Principles of Rhetoric (revised and enlarged edition), and Simonds's History of English Literature. Recitations, weekly impromptu themes based upon assigned reading, and other written exercises; memorizing of Gray's *Elegy*; Goldsmith's *Deserted Village*; Dryden's *Alexander's Feast and Song for St. Cecilia's Day*; and assigned reading, which will embrace examples of English literature from Beowulf to Tennyson. A syllabus giving the list of assigned readings will be furnished upon application to the instructor.

Students should secure the books for assigned reading early, either by ordering through a bookseller, or by sending money orders or stamps to the publishers mentioned in the syllabus. The excuse will not be accepted that books were ordered through a bookseller but not received.

For instruction in the history of English literature, the class meets in eight sections, once a week as follows: Two sections,

Tu. 1; two sections, Tu. 2; two sections Tu. 3; two sections, Tu. 6. For writing and rewriting themes, and for recitations in rhetoric and poetry, the class is divided into thirteen sections, each meeting twice a week, as follows: M. Th. 1; W. F. 1; M. Th. 2; Th. F. 2; two sections, M. Th. 3; two sections, W. F. 3; two sections, W. F. 4; M. Th. 6; W. F. 6; W. F. 7. *Required of all Freshmen.*

ASSOCIATE PROFESSOR GREEVER.

MRS. BLAKE.

MISS HOLCOMBE.

1a. COMPOSITION FOR ENGINEERING AND AGRICULTURAL STUDENTS (2)—This is a practical course designed to meet the needs of students in engineering and agriculture. Students can obtain another hour's credit by doing extra work out of class. *Prerequisite:* English 1. Text-book: Specimens of Prose Composition, Nutter, Hersey, and Greenough. T. Th. 4.

ASSOCIATE PROFESSOR GREEVER.

2. ADVANCED COMPOSITION; OUTLINE HISTORY OF THE LYRIC, THE EPIC, THE DRAMA, THE NOVEL, AND THE ESSAY; ELEMENTARY ANGLO-SAXON (3)—Barrett Wendell's *English Composition* and Smith's *Old English Grammar*. Recitations, lectures, informal discussions, weekly impromptu themes, long themes, and assigned reading which will follow the development of the lyric, the epic, the drama, the novel, and the essay.

A syllabus giving the list of assigned readings will be furnished upon application to the instructor.

Students should secure the books for assigned reading early, either by ordering through a bookseller, or by sending money orders or stamps to the publishers mentioned in the syllabus.

The excuse will not be accepted that books were ordered through a bookseller but not received.

For instruction in the outline history of English literary forms, the class meets once a week, T. 3.

For recitations and informal discussions in advanced rhetoric and elementary Anglo-Saxon, the class is divided into five sections, each meeting twice a week: Th. M. 2; two sections W. F. 3; Th. M. 4; F. M. 7. *Required of all Sophomores in the B. A. Course; elective for others who have credit for English 1.*

PROFESSOR SHANNON.

MISS HOLCOMBE.

3. AMERICAN LITERATURE (2)—Colonial literature will be studied in outline. Intensive study will be given to the leading poets, especially to Bryant, Emerson, Poe, Longfellow, Whittier, Holmes, Lowell, Lanier, followed by a consideration of minor poets of the South. *Open to Sophomores who have credit for English 1.* M. Th. 4.

MISS HOLCOMBE.

4. ADVANCED COMPOSITION (2)—This course provides a continuation of the composition work of English 2. The course is not a mere exercise in phrase-making, but is intended to teach the student to master the larger facts of composition as a whole. Plans and outlines are presented and discussed before the themes are written. Especial attention will be devoted to exposition and argumentation. *Text-book:* Gardiner's Forms of Prose Literature. *Required of Juniors whose major subject is English, and open to Juniors and Seniors who have completed English 2.* W. F. 2; M. Th. 7.

PROFESSOR SHANNON.

ASSOCIATE PROFESSOR GREEVER.

8. ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY (2)—This course includes that part of English literature from the death of Dryden to the publication of the Lyrical Ballads (1700-1798). It, therefore, traces the development of English literature through the period of classicism up to the triumph of romanticism. This is a library course in which the student is assigned reading in the works of the principal writers of this period and is required to submit reports upon topics suggested by his reading. After the student has studied briefly the biography of the author, made a classification of his works, and done the reading assigned to him, the instructor discusses in lectures the author's life and work and assigns to him his true place in literature. By this means the critical faculty of the student is cultivated and the discussion by the instructor furnishes to the student a standard by which to measure his own judgment and correct it, if need be. The authors read and discussed are Swift, Addison, Steele, Pope, Johnson, Goldsmith, Defoe, Richardson, Fielding, Smollet, Sterne, Thomson, Young, Collins and Gray. *Open to Juniors and Seniors who have credit for English 2.* M. F. 6. Omitted in 1909-10.

PROFESSOR SHANNON.

9. ENGLISH LITERATURE OF THE NINETEENTH CENTURY (2)—This course, which is a continuation of English 8, includes English literature from the publication of the Lyrical Ballads to the



death of Queen Victoria (1798-1901). The poetry, the novel, and the essay of the period are studied separately. The poetry is read and discussed in the classroom. *Text-book:* Page's British Poets of the Nineteenth Century. The novels are read and reports upon them are handed in to the instructor. Each student is required to select some essayist and read his work throughout the year and write reports from time to time. *Open to Juniors and Seniors who have credit for English 2.* W. F. 6.

MRS. BLAKE.

10. MIDDLE ENGLISH (2)—Chaucer's Life and Poems; History of the English Language. The aim of this course is to guide the student into an appreciation of Chaucer's literary style, and at the same time to give him an insight into the importance of the Middle English period in the development of the English language. *Text-books:* The Globe edition of Chaucer; Emerson's History of the English Language. *Required of Juniors whose major subject is English, and open to Juniors and Seniors who have completed English 2.* W. F. 4.

PROFESSOR SHANNON.

6. ENGLISH LITERATURE OF THE SIXTEENTH CENTURY (2)—This course begins with the publication of Tottel's Miscellany in 1557, which marks the real beginning of modern English literature, and closes with the predecessors of Shakespeare in the drama. The work of the first term deals with the non-dramatic literature of this period; that of the second term traces the development of the English drama from the Miracle and Morality plays to Shakespeare. This is a library course of reading and lectures by the instructor, conducted in the same manner as English 8. Manly's Pre-Shakespearean Drama is used as text in the second term. *Open to Juniors and Seniors who have completed English 2.* M. F. 6. PROFESSOR SHANNON.

7. ENGLISH LITERATURE OF THE SEVENTEENTH CENTURY (2)—The course is almost entirely a study of the drama and its development. The greater part of the year will be devoted to a reading of Shakespeare's plays in approximately chronological order. The representative plays of several of Shakespeare's contemporaries will also be studied. Papers and reports on assigned topics are required. *Open to Juniors and Seniors who have completed English 2.* M. 4, Th. 3.

ASSOCIATE PROFESSOR GREEVER.

11. **ANGLO-SAXON** (2)—This course aims to give students a knowledge of the earliest form of English, and constant comparison of modern English with Anglo-Saxon is made. The course, though intended primarily for students who take English as a major subject, is of value to all students who seek general culture and a knowledge of the development of our mother tongue. *Text-books:* Bright's Anglo-Saxon Reader; Lounsbury's History of the English Language; Greenough and Kittredge's Words and Their Ways in English Speech. *Required of Seniors whose major subject is English; open to Seniors who have completed English 10.* T. Th. 1.

PROFESSOR SHANNON.

**NOTE**—Students who select English as their major subject are required to take, besides English 1 and 2, the following courses: English 10, 4, and two hours from English 6, 7, 8, 9 in the Junior Year; English 11 and four hours from English 6, 7, 8, 9 in the Senior Year.

## GERMAN.

M. C. G. LENTZ, *Professor.*

1. **ELEMENTARY COURSE** (3)—Howe's First German Book; translation from German into English; Wigo, by Jacobsen, and Der Tschokoi, by Kraner, with prose composition based on these texts; Immensee, by Storm; Germelshausen, by Gerstaecker. M. T. Th. 2; M. W. F. 3; M. W. F. 4; M. W. F. 6; T. Th. F. 7.

2. **MODERN GERMAN PROSE** (3)—Review of grammatical principles with especial reference to syntax; reading of works by modern authors, such as Die Nonna, by Baumbach; Incognito, by Groller; Anfang und Ende, by Heyse; Der Bibliothekar, by Moser; German composition based on the text of Heyse's L'Arabiata. Practice in German conversation. M. T. Th. 1; M. W. F. 2.

2a. **INTERMEDIATE GERMAN COMPOSITION AND CONVERSATION** (2)—Wesselhoeft's German Exercises, Bronson's Colloquial German, Pope's German Composition. T. Th. 1.

3a. **LESSING, GOETHE AND SCHILLER** (3)—Lessing's Minna von Barnhelm, Goethe's Tasso, Schiller's Ballads and Lyrics. German essays on works read. Rolleston's Lessing, Sime's Goethe, and Nevison's Schiller. (For assigned reading, see Note.) M. W. F. 3.

3b. ADVANCED GERMAN COMPOSITION AND CONVERSATION (2)—Poll's German Prose Composition, Grollier's Incognito, with composition based on the text. Practice in conversation and original composition. This course is conducted partly in German. T. Th. 3.

4a. HISTORY OF GERMAN LITERATURE WITH SPECIAL STUDY OF THE CLASSIC PERIODS OF THE TWELFTH AND EIGHTEENTH CENTURIES (3)—Keller's *Bilder aus der deutschen Litteratur*, Obermann's *Deutscher Minnesang*, Wenkebach's *Die Meisterwerke des Mittelalters*, and other parallel reading. English essays on works read. M. W. F. 4.

4b. MIDDLE HIGH GERMAN (2)—Wright's *Middle High German Primer*, Paul's *Middle High German Grammar*. *Reading*: Weinhold's *Mittelhochdeutsches Lesebuch*, Bartsch's *Walther von der Vogelweide*. T. Th. 4. *Prerequisite*: German 4a.

4c. SCIENTIFIC GERMAN (2)—Brandt and Day's *German Scientific Reading*, Helmholtz's *Populaere Vortraege*, Lassar-Cohn's *Die Chemie im taeglichen Leben*. Outside reading of available German scientific periodicals. T. Th. 2. *Prerequisite*: *Two years of German*.

NOTE—For the purpose of acquiring a facility in sight reading, and cultivating a taste for modern German literature, each student registered in German 3a, 3b, 4a, 4b and 4c is required to read, during the college year, not less than five volumes of standard German fiction. A list of novels suitable for such reading can be obtained from the head of the department.

## ROMANCE LANGUAGES.

A. MARINONI, *Professor*.

### FRENCH.

1. ELEMENTARY COURSE (3)—Reading and composition. Thieme and Effinger's *French Grammar*, Douay's *Elementary French Reader*, and other easy texts. M. W. F. 2; T. W. Th. 7.

2. FRENCH PROSE AND POETRY (3)—Composition, sight reading, Conversation. Cameron's *French Composition* will be used, and representative works of modern French authors will be read. M. W. F. 3.

3. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY (3)—The aim of this course is to obtain a general view of the classic period of French literature. The most important literary productions of the century will be read and analyzed in the class room. Considerable outside reading will also be assigned with

written reports from time to time. The course is conducted in French. M. W. F. 1.

3a. FRENCH LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES (3)—The first term will be devoted to the study of representative works of the Eighteenth Century. In the second term especial attention will be given to the romantic movement in France and works from such writers as Lamartine, Vigny, de Musset, Hugo, and others will be read. M. W. F. 6.

4. MODERN FRENCH POETRY (1)—The object in this course is a systematic study of the evolution of French poetry from 1850 to our days. New tendencies in poetry, and the reaction against romanticism as shown in the works of Leconte de Lisle, Verlaine, Baudelaire, Heredia, Prudhomme. Hour to be arranged.

4a. FRENCH DRAMA (1)—The evolution of French drama from the origins to the present time. Lectures, written reports, outside reading. One hour, by appointment.

4b. FRENCH SYNTAX (1)—French syntactical forms will be studied from the historical standpoint. Given in even years—1910, 1912, etc.

4c. ADVANCED FRENCH COMPOSITION (1)—This course is open to all students who have had at least two years of French.

### ITALIAN.

1. ELEMENTARY COURSE (3)—Grandgent's Grammar, Marioni's Reader. Composition, conversation. M. W. F. 4.

2. ADVANCED COURSE (3)—The first semester will be given to a general survey of the Fifteenth and Sixteenth Centuries, and selections from the works of Macchiavelli, Ariosto, Tasso, will be read. The second semester will be devoted to the study of the *Divinia Commedia*.

3. DANTE IN ENGLISH (1)—Only Seniors whose major work is in English can enter this course. One hour, by appointment.

### SPANISH.

1. ELEMENTARY COURSE (3)—Loiseaux's Grammar; Padre Isla's *Gil Blas* and other easy texts; composition; conversation. M. T. F. 5.

2. MODERN SPANISH (3)—Selections from the best productions of the Nineteenth Century will be read; assigned reading; composition; conversation.



# MATHEMATICS AND ASTRONOMY.

GEORGE W. DROKE, *Professor.*

B. J. DUNN, *Associate Professor.*

A. M. HARDING, *Adjunct Professor.*

## Mathematics.

1a. ALGEBRA, SOLID GEOMETRY, PLANE TRIGONOMETRY—4 hours per week. About twelve weeks are given to each subject, Algebra coming first. *Text-book:* Durell's Plane and Solid Geometry. Sections 1 and 2. Tu. W. Th. F., periods 1 and 4.

PROFESSOR DROKE AND ADJUNCT PROFESSOR HARDING.

3c. ALGEBRA (*first term*), PLANE TRIGONOMETRY (*second term*)—3 hours per week. M. W. F., period 7. Open to Freshmen who have credit for solid geometry. PROFESSOR DROKE.

1c. ALGEBRA (*first term*), SOLID GEOMETRY (*second term*)—3 hours per week. Sections 1, 2, 3. M. W. F., periods 3 and 4. Required of Freshmen engineers.

PROFESSOR DROKE AND ASSOCIATE PROFESSOR DUNN.

2c. PLANE TRIGONOMETRY (*first term*), ANALYTIC GEOMETRY (*second term*)—3 hours per week. Sections 1, 2, 3. Tu. W. Th., periods 1, 3, 4. Required of Freshmen engineers.

ASSOCIATE PROFESSOR DUNN.

ADJUNCT PROFESSOR HARDING.

4. ANALYTIC GEOMETRY—3 hours per week. Tanner and Allen's Analytic Geometry. Elective for A. B. students of the Sophomore year. M. W. F., period 2. PROFESSOR DROKE.

4a. ALGEBRA AND ANALYTIC GEOMETRY (*continuation of 2c*)—3 hours per week. Sections 1 and 2. M. W. F., periods 2 and 4. Required of Sophomore engineers.

ASSOCIATE PROFESSOR DUNN AND ADJUNCT PROFESSOR HARDING.

3. ALGEBRA (*24 weeks*), ANALYTIC GEOMETRY (*12 weeks*)—3 hours per week. M. W. F., period 6. Elective for A. B. Sophomores who are deficient in algebra. PROFESSOR DROKE.

5a. ANALYTIC GEOMETRY (*continuation of course 3*)—2 hours per week. Tu. Th., period 3. PROFESSOR DROKE.

4b. DIFFERENTIAL AND INTEGRAL CALCULUS—2 hours per week. Osborne's Calculus. Sections 1 and 2. Tu. Th., period 2. Required of Sophomore engineers.

PROFESSOR DROKE AND ADJUNCT PROFESSOR HARDING.

5b. ALGEBRA (*continuation of Algebra 1a*)—2 hours per week.  
Elective for A. B. Sophomores. Tu. Th., period 2.

ASSOCIATE PROFESSOR DUNN.

6. DIFFERENTIAL AND INTEGRAL CALCULUS—3 hours per week.  
M. W. F., period 3. Elective for A. B. Juniors and Seniors.

PROFESSOR DROKE.

6b. ALGEBRA AND CALCULUS—2 hours per week. Tu. Th., period  
3. Required of Junior engineers.

ASSOCIATE PROFESSOR HARDING.

The following elective courses are offered, but on account of the limited teaching force not more than two of them may be taken in the same year.

8. SPHERICAL GEOMETRY, PLANE AND SPHERICAL TRIGONOMETRY, THEORY OF EQUATIONS—2 hours per week.

8a. THEORY OF EQUATIONS (*continuation of course 8*)—2 hours per week.

9. (a) DIFFERENTIAL EQUATIONS—3 hours per week. First or second term. Murray's Differential Equations.

(b) ANALYTIC GEOMETRY OF THREE DIMENSIONS—3 hours per week. First or second term. Books of reference: C. Smith's and Frost's Solid Geometry; Salmon's Geometry of Three Dimensions.

9a. MODERN ANALYTIC GEOMETRY—2 hours per week.

12. ADVANCED CALCULUS—3 hours per week.

15. DIFFERENTIAL GEOMETRY—2 hours per week.

NOTE.—Those who make mathematics their major subject must take courses 1a, 4, 5b, 6 and 8, or their equivalent. Courses 9, 9a, 12 and 15 may be taken by graduate or undergraduate students.

### Astronomy.

16. DESCRIPTIVE ASTRONOMY—2 hours lectures and recitations, with occasional meetings at night for observation. *Text-book:* Moulton's Introduction to Astronomy.

ADJUNCT PROFESSOR HARDING.

17. SPHERICAL AND PRACTICAL ASTRONOMY—2 hours. Astronomical co-ordinates. Parallax. Time. Use of a sextant and transit instrument, determination of latitude, etc.

ADJUNCT PROFESSOR HARDING.

## HISTORY AND POLITICAL SCIENCE.

J. H. REYNOLDS, *Professor*.D. Y. THOMAS, *Associate Professor*.

The courses in this department are designed to afford general culture, and in addition are essential to those who are looking to law, journalism, politics, the ministry or any other public calling. Course 2 is foundation work and should be taken in the Freshman year. Other courses are not open to Freshmen.

2. (a) MEDIAEVAL HISTORY (*first term*) (3)—This course is designed to give the student a knowledge of the essential contributions of the ancient world to history, of the reorganization of German society upon the basis of Græco-Roman civilization, and the rise of the modern states.

(b) MODERN HISTORY (*second term*) (3)—Beginning where course (a) leaves off, the class will study the great world movements of modern times, such as the reformation, religious wars, absolutism, the struggle for constitutional government in England, the contest for supremacy on the high seas, the French Revolution, and the democratic movements of the Nineteenth Century. All students seeking a liberal education should take this course. *Text-books:* Robinson's History of Western Europe and his Readings in European History. *For Freshmen.* M. Th. 1; M. F. 2; T. F. 3; M. Th. 4; M. F. 6. All sections meet the fifth period on Wednesday.

PROFESSOR REYNOLDS.

ASSOCIATE PROFESSOR THOMAS.

3. THE UNITED STATES SINCE 1783 (*throughout the year*) (3)—After a brief study of the Confederation and of the formation of the Constitution, the subsequent history of the United States will be treated with special reference to political and constitutional development. Special attention will be given to the growth of political parties, the gradual sectional division of the country over slavery and state's rights, and the results of the Civil War and Reconstruction. Much library work will be required. M. W. F. 4.

ASSOCIATE PROFESSOR THOMAS.

4. (a) AMERICAN STATE GOVERNMENT (*first term*) (2)—A study of the place of the state in our federal system, of the constitutional law of the states; of the structure and workings of American state governments as they exist today, and of some of the practical problems now before the states, such as the initiative

and referendum, control of corporations, legislative reference, proportional representation.

(b) POLITICAL PARTIES (*second term*) (2)—Organization and workings of political parties. The caucus, the convention, the boss, the primary; methods of state control. Largely a library and lecture course. M. F. 2. PROFESSOR REYNOLDS.

5a. HISTORY OF ENGLAND (*throughout the year*) (3)—A general culture course covering the whole of English History, treating alike the political, the literary, the religious, and the economic activities of the people. The origin and growth of the more important institutions, such as the kingship, parliament, cabinet, courts, and church; the reformation, the literature, the economic changes; the struggle for constitutional government and the colonial system will all receive attention. Primarily for Sophomores. PROFESSOR REYNOLDS.

5. (a) ENGLAND UNDER THE TUDORS AND THE STUARTS (*first term*) (3)—A study of the political, religious, literary and economic history of England during these two periods.

(b) THE BRITISH EMPIRE (*second term*) (3)—While a brief survey of the general history of England through the eighteenth and nineteenth centuries will be made, the attention of the class will be mainly devoted to a study of England's colonial history and of the forces that have developed the British Empire of today. An analysis of the present imperial policy will be given. A library and lecture course. *Prerequisite: History 2 or Junior standing.* M. T. Th. 2. PROFESSOR REYNOLDS.

6. (a) NATIONAL GOVERNMENT (*first term*) (3)—A study and comparison of the structure and powers of the national governments of England, United States, France, Germany, and Switzerland. Special emphasis will be given to the place of the federal system in public law. *Text-book:* Burgess's Political Science and Constitutional Law, and the constitutions themselves.

(b) INTERNATIONAL LAW (*second term*) (3)—A brief sketch of the history of international law, and a study of the principles now considered binding on civilized nations. For Juniors or Seniors who have had three hours of college history. *Text-book:* Davis's Elements of International Law. Considerable library work will be required. T. W. F. 3.

ASSOCIATE PROFESSOR THOMAS.



1. (a) HISTORY OF GREECE (*first term*) (2)—This course is designed to give a thorough knowledge of the history and the institutions of the Greeks. A general knowledge of the subject is presumed.

(b) HISTORY OF ROME (*second term*) (2)—The explanations made above in regard to the history of Greece apply to this course.  
ASSOCIATE PROFESSOR THOMAS.

7. (a) FRENCH REVOLUTION AND THE NAPOLEONIC ERA (*first term*) (2)—France on the eve of the revolution; her political philosophers; causes and events of the revolution, and the wars of Napoleon.

(b) THE NINETEENTH CENTURY (*second term*) (2)—The democratic movement of the century; the development of constitutional government; the unification of Italy and Germany; and the present condition of world politics. Tu. Th. 4.

ASSOCIATE PROFESSOR THOMAS.

8. (a) POLITICAL THEORIES (*first term*) (3)—An historical survey of the writers on politics from Plato to modern times with some attention to actual conditions at the time of each writer studied. Particular attention will be paid to individual liberty and to the growth of democracy.

(b) AMERICAN DIPLOMACY (*second term*) (3)—The formation and activity of the Department of Foreign Affairs and of the Department of State; study of the most important questions that have arisen in our foreign relations, mainly from the state papers. For Juniors or Seniors who have had 6 b.

ASSOCIATE PROFESSOR THOMAS.

9. (a) THE UNITED STATES 1763-1783 (*first term*) (2)—The Colonies in their relations to the mother country with special reference to the attempt at imperial taxation. Particular attention will be given to the literature of the period as preparing the colonists for separation. The steps leading to the declaration of Independence will be traced in detail; also the failure of the Confederation and the formation and adoption of the Constitution.

(b) THE CIVIL WAR AND RECONSTRUCTION (*second term*) (2)—The first part of this course will deal mainly with the events leading up to the war; the second with the political, economic, and social phases of Reconstruction. *Prerequisite: Six hours of history.* T. Th. 6.

ASSOCIATE PROFESSOR THOMAS.

## ECONOMICS AND SOCIOLOGY.

C. H. BROUGH, *Professor*.

NEIL CAROTHERS, *Adjunct Professor*.

The courses offered in this department are designed to give instruction in problems of current economic, social and public interest, to prepare students for the duties of citizenship and participation in the professions of law, politics, journalism, financiering—in general, for professional and business careers.

*Economics 1 is a prerequisite for all courses except 2, 7 and 9.*

1. PRINCIPLES OF ECONOMICS (*both terms*) (3)—*Texts*: Bullock's Introduction to the Study of Economics; Seligman's Principles of Economics, with assigned reading in special topics, such as trusts, tariff, labor, taxation, etc. Prerequisite to all economic courses except 2, 7 and 9. Section 1, M. Tu. Th. 1; Section 2, M. 2, W. 2, F. 2; Section 3, M. 4, W. 4, F. 4; Section 4, M. 6, W. 6, F. 6; Section 5, M. 3, W. 3, F. 3.

2. BUSINESS LAW (*both terms*) (3)—A study is made in this course of the law of bills, cheques, and notes; the law of contracts; the law of agency, and the laws of Arkansas. The regular text-book work will be supplemented by some lectures by President Tillman of the University, formerly Circuit Judge, on topics connected with the course. *Texts*: Bigelow's Bills, Cheques and Notes; Harriman on Contracts; Huffcut on Agency; Kirby's Digest of Arkansas Laws. T. 6, W. 1, F. 1.

3. (a) MONEY AND BANKING (*first term*) (3)—The theory of money, banking and credit is considered, and current financial problems and practical banking is stressed. Visits are made from time to time to the banks of Fayetteville, in order that the class may familiarize itself with the forms and machinery of banking. *Texts*: White's Money and Banking; Fiske's The Modern Bank. T. 2, Th. 2, F. 5.

(b) TRANSPORTATION AND ITS PROBLEMS (*second term*) (3)—The railway systems of the United States and foreign countries, railroad geography, rate making, government *versus* private ownership and control and the proposed enlargement of the powers of the Interstate Commerce Commission are considered. *Texts*: Johnson's American Railway Transportation; Johnson's

(b) THE LABOR QUESTION (*second term*) (2)—A study of the purposes and fundamental principles of trades unions, strikes, lockouts, boycotts, blacklists, arbitration, conciliation, and injunction, both from the standpoint of the laborer and capitalist. *Texts*: Mitchell's Organized Labor; Bolen's Getting a Living. T. 6, Th. 6.

7. (a) PRINCIPLES OF SOCIOLOGY (*first term*) (2)—This course considers the elements of social growth and progress, describes social institutions, and suggests practical social reforms. *Text*: Wright's Practical Sociology. Supplementary readings on population, immigration, liquor, divorce, prison administration, and slum problems. T. 7, Th. 7.

(b) MODERN METHODS OF CHARITY (*second term*) (2)—A study of the problems of poverty, its causes, results, and remedies, together with questions of poor relief and organized charity. *Text*: Devine's Methods of Poor Relief. T. 7, Th. 7.

8. ECONOMIC PROBLEMS OF THE PRESENT (*both terms*) (3)—Lectures, debates, and discussions of the tariff, trust, labor, ship subsidy, railroad, government ownership, municipal monopoly, socialism, income tax, inheritance tax, injunction, land reform and prohibition problems. One period each week is devoted to lectures by the Professor in charge on these current economic questions; one, to debates by members of the class; one, to discussions and reports on these questions in class. No regular texts are used, but Congressional Records, books, and current periodicals are freely consulted. M. 6, T. 5, Th. 3.

9. ENGINEERING LAW (*both terms*) (3)—Elective for Seniors in civil engineering. Lectures and recitations three times a week. *Texts*: Johnson's Contracts and Specifications; Wait's Engineering and Architectural Jurisprudence. T. 7, Th. 2, F. 4.



(b) THE LABOR QUESTION (*second term*) (2)—A study of the purposes and fundamental principles of trades unions, strikes, lockouts, boycotts, blacklists, arbitration, conciliation, and injunction, both from the standpoint of the laborer and capitalist. *Texts*: Mitchell's Organized Labor; Bolen's Getting a Living. T. 6, Th. 6.

7. (a) PRINCIPLES OF SOCIOLOGY (*first term*) (2)—This course considers the elements of social growth and progress, describes social institutions, and suggests practical social reforms. *Text*: Wright's Practical Sociology. Supplementary readings on population, immigration, liquor, divorce, prison administration, and slum problems. T. 7, Th. 7.

(b) MODERN METHODS OF CHARITY (*second term*) (2)—A study of the problems of poverty, its causes, results, and remedies, together with questions of poor relief and organized charity. *Text*: Devine's Methods of Poor Relief. T. 7, Th. 7.

8. ECONOMIC PROBLEMS OF THE PRESENT (*both terms*) (3)—Lectures, debates, and discussions of the tariff, trust, labor, ship subsidy, railroad, government ownership, municipal monopoly, socialism, income tax, inheritance tax, injunction, land reform and prohibition problems. One period each week is devoted to lectures by the Professor in charge on these current economic questions; one, to debates by members of the class; one, to discussions and reports on these questions in class. No regular texts are used, but Congressional Records, books, and current periodicals are freely consulted. M. 6, T. 5, Th. 3.

9. ENGINEERING LAW (*both terms*) (3)—Elective for Seniors in civil engineering. Lectures and recitations three times a week. *Texts*: Johnson's Contracts and Specifications; Wait's Engineering and Architectural Jurisprudence. T. 7, Th. 2, F. 4.



## CHEMISTRY.

CHARLES G. CARROLL, *Professor.*H. E. MORROW, *Associate Professor.*

1. ELEMENTARY CHEMISTRY (3)—Lectures and recitations two hours a week; laboratory exercises one afternoon a week. *Prerequisite: Preparatory physics.*

ASSOCIATE PROFESSOR MORROW.

1a. ELEMENTARY CHEMISTRY (2)—Two hours per week in addition to the work of chemistry 1. Required of students in the course in agriculture; second term of the Freshmen, and first term of the Sophomore year. ASSOCIATE PROFESSOR MORROW.

2. GENERAL INORGANIC CHEMISTRY (2)—Lectures and recitations two hours per week. Smith's General Inorganic Chemistry is the text-book used. M. I, W. I. PROFESSOR CARROLL.

2a. LABORATORY EXERCISES TO ACCOMPANY CHEMISTRY 2 (1-2)—Smith's Laboratory Outline of General Chemistry is used as a basis. PROFESSOR CARROLL.

3. ELEMENTARY ORGANIC CHEMISTRY (2)—Lectures and recitations twice a week. Remsen's Organic Chemistry is the text-book used. *Prerequisite: Chemistry 1.*

ASSOCIATE PROFESSOR MORROW.

3a. LABORATORY EXERCISES IN ORGANIC CHEMISTRY (1-2)—To accompany chemistry 3. ASSOCIATE PROFESSOR MORROW.

4. ADVANCED ORGANIC CHEMISTRY (3)—Lectures and recitations three hours per week. *Prerequisite: Chemistry 3.*

ASSOCIATE PROFESSOR MORROW.

4a. ORGANIC PREPARATIONS (1-2)—Exercises in organic chemistry, with the manuals of Gattermann, Levy, Fischer as a basis. This course should be taken in connection with Chemistry 4.

ASSOCIATE PROFESSOR MORROW.

5. QUALITATIVE ANALYSIS (2-3)—One lecture or conference per week, with laboratory work, during either term or throughout the year. *Prerequisite: Chemistry 1.* PROFESSOR CARROLL.

ASSOCIATE PROFESSOR MORROW.

6. QUANTITATIVE ANALYSIS (2-5)—One lecture or conference per week with laboratory work, for one term or during the year. The credit given will depend on the quality of the work and the number of determinations made. The course will be varied to suit the needs of individual students. *Prerequisite: Chemistry 5.*

PROFESSOR CARROLL.

7. QUANTITATIVE ANALYSIS (2-5)—Occasional lectures and conferences. More complicated gravimetric and volumetric processes of analysis. Credit determined as for Chemistry 6.

PROFESSOR CARROLL.

8. QUANTITATIVE ANALYSIS (2-5)—A continuation of course 6 or course 7. The work done will be varied to suit the needs of the student. Engineering students may perform exercises in technical gas analysis, the analysis of fuels, oils, etc. *Prerequisite: At least 1½ hours of Chem. 5 and Chem. 6.*

PROFESSOR CARROLL.

9. WATER ANALYSIS (2-3)—A course in the methods of sanitary and technical water analysis, primarily for engineering students. The discussion and interpretation of results of the various analyses will be illustrated in occasional lectures and conferences. *Prerequisite: At least 1½ hours of Chem. 5 and Chem. 6.*

PROFESSOR CARROLL.

10. ELECTRO-CHEMICAL ANALYSIS (2-5)—Quantitative analysis by electrolysis. Laboratory exercises with occasional lectures during the year or either term.

PROFESSOR CARROLL.

11. PHYSICAL CHEMISTRY (3)—Lectures three hours per week for one term. *Prerequisite: Chem. 1 and a certain amount of Chem. 5 and 6; Mathematics 1a; Physics 1, 1a.*

PROFESSOR CARROLL.

11a. LABORATORY EXERCISES IN PHYSICAL CHEMISTRY (2-3)—To accompany Chemistry 11.

PROFESSOR CARROLL.

12. ELECTRO-CHEMISTRY (3)—Elementary, theoretical and applied electro-chemistry. *Prerequisite: Physics 2, Chem. 1.* Lectures and laboratory exercises during one term.

PROFESSOR CARROLL.

13. HISTORY OF CHEMISTRY (2)—Lectures, assigned readings and reports, during one term.

PROFESSOR CARROLL.

14. CHEMISTRY COLLOQUIUM (1)—Readings and discussions one hour per week, during the year. For the year 1907-1908 Glaser's *Indictatoren der Acidimetrie and Alkalimetrie* was the basis of the work. PROFESSOR CARROLL.

15. RESEARCH WORK—Problems in research will be given to graduate students and to others competent to undertake such work. A reading knowledge of German and of French is indispensable. PROFESSOR CARROLL.

16. JOURNAL MEETING (1)—The instructors and advanced students of this department and of the department of physics meet once a week for discussion of articles in the current chemical and physical journals, and to report on their own investigations. Thursday: 7:30-8:30 p. m.

## BIOLOGY.

F. W. PICKEL, *Professor.*

The courses of this department have been arranged to meet the needs of three classes of students: those who desire to become acquainted with the fundamental principles of plant and animal life; those who contemplate the study of medicine; and those wishing to go more thoroughly into the study of biological science to obtain the technical training necessary for subsequent investigation or for teaching.

1. GENERAL BIOLOGY (3)—This course serves as an introduction into the whole field of biological science, and should be a part of the general education of every student. Types of plants and animals will be dissected and studies in the laboratory, and the essential truths of biology emphasized. One recitation and laboratory work, four hours per week throughout the year. Tu. Th. 6 and 7, F. 6.

2. BOTANY (3).—In this course special attention is paid to the morphology, physiology, and ecology of plants, but due attention is given in the second term to the systematic classification of plants, and each student is required to collect and write a technical description of a certain number of plants. The geological history of plants and the origin of cultivated plants will be briefly considered. Field work, when practicable, will form an important feature of the course. Recitations and laboratory work six hours per week throughout the year. M. W. 6 and 7; F. 7.



3. ADVANCED BOTANY (3)—A lecture and laboratory course on the morphology, physiology and the diseases and injuries of plants. One lecture and four hours' laboratory work per week throughout the year. *Prerequisite: Botany 2.*

4. BACTERIOLOGY (4)—An introduction to the subject, and instruction in laboratory technique—the preparation of nutrient media, the characteristics of bacteria, the kind and effects, isolating and keeping pure cultures, microscopical preparations, the study of bacteria found in soil, in water, and in air; study of pathogenic forms and their relation to disease. One lecture and six hours' laboratory work per week throughout the year. *Prerequisite: Chemistry 1, Biology 1.* M. 1, Tu. W. F. 2 and 3.

5. GENERAL ZOÖLOGY (3)—A general course in invertebrate and vertebrate morphology. Attention will be given to the fundamental facts of zoölogical science, and the laws of development, heredity, variation, correlation, etc. In connection with the laboratory work in the course, instruction will be given to such students as desire to learn methods of preparing bird skins and mammal skins for laboratory and museum specimens. Field work, when practicable, will form an important feature of the course. One recitation and four hours' laboratory work per week throughout the year. M. F. 3 and 4, W. 5.

6. COMPARATIVE ANATOMY OF VERTEBRATES (3)—Recitations and demonstrations dealing with the comparative anatomy of acrania, cyclostomes, sharks, fishes, amphibians, reptiles, birds and mammals. Laboratory work on selected types of the different groups. One recitation and four hours' laboratory work per week throughout the year. *Prerequisite: Biology 1, or General Zoölogy 5.* M. 2, W. F. 1 and 2.

7. ANIMAL HISTOLOGY AND EMBRYOLOGY (5)—This course is offered to students intending to study medicine, but is open to any student who has completed biology 1. It consists of instruction in histological and embryological methods of technique to acquaint the student with the principles of histology and embryology. Two lectures and six hours' laboratory work per week throughout the year. Tu. Th. 1, W. F. 2, 3, 4.

8. PHYSIOLOGY (4)—The physiology of foods, digestion, and nutrition; the blood circulation, and respiratory mechanism; the excretion, especially analysis of urine; functions of brain and



spinal cord; physiology of nerve and muscle. Two lectures and four hours' laboratory work a week throughout the year. *Prerequisites:* *Chemistry I, Elementary Physiology.* M. 5, Tu. Th. 2 and 3.

9. NATURE STUDY (I)—A special course in nature study, its aim, methods, etc., and systematic science teaching will be offered to students who expect to teach. One lecture per week throughout the year. *Prerequisite:* *Biology I.*

## GEOLOGY AND MINING.

A. H. PURDUE, *Professor.*

A. A. STEEL, *Associate Professor.*

### Geology.

The several courses in geology are intended to supply the needs of:

1. Students who wish to ground themselves in the elements of the science with the view of making it a life work. Of such, courses 2, 3, 5, 7 and 8 are required.

2. Students taking the course in mining engineering, of whom courses 2, 3, 5, 7 and 9 are required.

3. Students in agriculture, to whom course 1 or 2 is recommended.

4. Students desiring a general educational knowledge of the subject to whom course 2 is recommended.

5. Students who are preparing themselves to teach physical geography and physiography, to whom course 1 or 6 is recommended.

### Mining Engineering.

The four years' course in mining engineering outlined on page 75 is planned to give that instruction in the underlying principles of geology and mining engineering, which can be acquired only with great difficulty outside of the colleges. Effort will be made to train the student in original thinking and the ready adaptation of means to the unusual conditions so common in mining.

The practical work of mining, metallurgy, and ore dressing can be learned so much more rapidly and effectively by actual

work that no laboratory instruction in these lines is offered at the University. The students are expected to spend parts of at least two summer vacations at ordinary day's work in some mine, mill or smelter, where they will be expected to ask questions of the workmen and keep notes of their observations, and compute the costs of some detailed operations. This plan, besides preparing the students for the study of the principles involved in their work, also gives them a useful knowledge of the workmen with whom they must deal, and tends to break down the prejudices on both sides.

The course in cement engineering, outlined on page 76, is mining geology and mining operating, rather than all-around technical men. Hence a large part of the student's time is spent upon work in the department of geology and mining, but the necessary fundamental work in mathematics and applied science is not slighted, and enough work is required in the other technical departments to enable the graduates to solve the simpler problems of civil, mechanical, and electrical engineering, and metallurgy, and to judge of the qualifications of specialists in these lines, when in charge of large properties. There is also enough laboratory and field work required to fit the young mining engineer to do all the analytical work, assaying, surveying, drafting, and designing needed at the average mine, while he is acquiring the experience and prestige necessary for more responsible and executive positions.

While the course is not especially exacting, it is severe and should be undertaken only by students well prepared mentally and in good health. To accomplish all the work well, the average student will have to devote seven or eight hours per day, six days per week, to his college work during the academic year.

### **Cement Engineering.**

The course in cement engineering, outlined on page 76, is designed to give that college training which will be most useful to the designer or manager of a modern complex cement factory. The required work is divided among several departments so as to give an all-around training in the technology of cement engineering, rather than exhaustive drill along one line. Time is also left for some electives to be taken, in accordance with the

special need or abilities of the student, either in the line of additional engineering or science for the technical man, or of liberal studies for one desiring to specialize in the administrative side of the cement industry.

In addition to the fundamental course of geology, there will be required sufficient field work for the geological examination of a number of near-by deposits of suitable Portland cement material. For this work the University of Arkansas is unusually fortunate in that some such deposits are situated within the limits of the City of Fayetteville. Most of these are so well exposed that, without expensive exploration, the student can determine the amount of stripping necessary, the inclination or lay of the limestone and shale beds, and, therefore, the most convenient method of arranging a hypothetical quarry and plant. Some study of quarrying methods may also be obtained at the two groups of lime quarries in the vicinity of Fayetteville.

In the same way a part of the work in chemistry will consist of analyses of samples of possible cement material actually collected by the students in the field.

The detailed work in cement will serve to unify the entire course, and will deal with the special features of cement-making. In the Junior year will be given the introductory course in the manufacture and chemistry of cement, and the detailed geology of cement material. This will enable the student to understand the technical journals and to study actual cement plants with greater profit. In the Senior year, when the student is better equipped for the work, will come the details of quarrying methods, the critical course in cement-making machinery and the principles governing the general arrangement of the plant. An increasing-proportion of the student's time will be devoted to the outline design of a complete plant, and some time will be devoted to cement testing in the laboratory of the Civil Engineering Department.

Before the degree is granted, at least six weeks of actual work at some cement plant will be required. This work should, if possible, be done during the summer between the Junior and Senior years, and will include the collection of data for the graduating thesis. Since the course is new and without precedent, changes may be made in the future as experience indicates.



### Geology.

1. ELEMENTARY GEOLOGY (3)—An elementary course suited to Freshmen, and adapted to the needs of teachers of physical geography in secondary schools.

*Text:* The Elements of Geology, by W. H. Norton. M. T. W. 6 and 7. PROFESSOR PURDUE.

2. GENERAL GEOLOGY (3)—The geological work of the atmosphere and water (including streams, lakes, the ocean, and underground water); glaciers and glaciation; organic agencies; igneous and sedimentary rocks; structural geology; diastrophism; historic geology. Recitation three times a week. *Text:* Branner's Syllabus of General Geology, supplemented by Chamberlin and Salisbury's Geology. *Prerequisite:* Chemistry I. M T. W. 2. PROFESSOR PURDUE.

3. PRACTICAL GEOLOGY (3)—Field and laboratory work nine hours a week throughout the year, with the construction of geologic maps and sections, and topographic maps.

PROFESSOR PURDUE.

5. CRYSTALLOGRAPHY AND MINERALOGY (3)—(a) Lectures and recitations three hours a week during the first term on the elements of geometric crystallography.

(b) Laboratory work (three-hour periods) three times a week following course (a) and extending through the year. Determination of minerals before the blowpipe, and in the wet way. *Text:* Determinative Mineralogy, Brush. *Required of students in geology, mining and civil engineering.* *Prerequisite:* Chemistry I. Th. F. 5, 6, 7, 8. ASSOCIATE PROFESSOR STEEL.

6. ADVANCED COURSE IN PHYSIOGRAPHY (3)—The work of the atmosphere, ground-water, running water, and snow and ice; crustal movements and vulcanism; moisture, pressure and circulation of the atmosphere. This course is offered to *Juniors and Seniors and those who have had Geology I or 2*. Second term. *Text:* Physiography, by R. D. Salisbury.

PROFESSOR PURDUE.

Students who take their major in geology are required to prepare a report including maps, sections and other necessary illustrations of some area of the geology of which they have worked out.



### Mining.

1. INTRODUCTORY COURSE (2)—Descriptive treatment of a few of the more common methods of mining now practiced, preliminary to the study of actual mining during the summer vacation. A general basis for later detailed and critical courses. Lectures or recitations twice a week during second term. *Prerequisites: Chemistry I, Physics I.*

ASSOCIATE PROFESSOR STEEL.

2. DETAILS OF MINING OPERATIONS (2½)—Methods, tools, rate of progress and comparative cost of; excavation of earth; drilling and blasting of rock; driving and timbering of tunnels in hard and soft ground; boring for various purposes, and shaft sinking and timbering. Also a discussion of the nature and use of common explosives, and the special methods of mining. Outside reading with lectures or recitations twice a week throughout the year. *Prerequisite: Mining I.*

ASSOCIATE PROFESSOR STEEL.

3. ADVANCED MINING (3)—(a) A critical study of the different methods of exploration, development and working of mineral deposits. Practice in selecting the methods best suited to certain assigned conditions, and combining the good features of various established systems of mining. Lectures or recitations three times a week the first ten weeks of the year.

(b) MINING ADMINISTRATION—Organization of staff for large and small mines; purchase of supplies and disposal of product; management of labor; elements of mining law; mine accounts and cost sheets. Three times per week for seventeen weeks following course (3a).

(c) MINE EXAMINATIONS—Sampling of ore bodies; estimation of average value, and available and probable tonnage of ore in the mine; character and form of maps and expert reports. Outside drawing and lectures or recitations three times a week last seven weeks of the term.

This course is open only to students whose major is taken in the department of Geology and Mining.

ASSOCIATE PROFESSOR STEEL.

4. ENGINEERING PROBLEMS OF MINES (3)—(a) Applications of civil engineering to mining. Surface and underground hand-

ling, transportation and storage of minerals; mine buildings, trestles, ore bins, etc.; mineral railroads, common roads; water supply; drainage of mines; methods of ventilation; accident to men; underground surveying. Lectures and conferences three times a week, first term, with outside reading, designing and detailed drawing. *Prerequisites: C. E. 2 and 3; M. E. 4 and 9.*

ASSOCIATE PROFESSOR STEEL.

(b) MINE PLANT—Description and critical discussion of the mechanical equipment of mines; hoisting engines, ropes, skips, cages, and head frames; various types of pumping machinery; air compressors and the transmission of power by compressed air; machine drills; mine cars and tracks; underground haulage plant; practice in the selection of mining machinery from trade catalogues. Lectures and conference three times a week, second term. Outside reading and detailed drawing. *Additional prerequisite: M. E. 5. Either term may be elected separately.*

ASSOCIATE PROFESSOR STEEL.

8. ORE DRESSING—General principles and theory of ore dressing; hand dressing; cleansing; crushing; sizing and classifying; jigging sized and unsized products; table concentrating; stamp milling of gold and silver ores; descriptions of typical ore dressing works; practice in outlining schemes of ore dressing under assigned conditions. *Text-book: Richard's Ore Dressing. Recitations and conference twice a week, two terms. Prerequisites: Geology 5, Mechanical Engineering 4 and 5.*

ASSOCIATE PROFESSOR STEEL.

### Metallurgy.

1. GENERAL METALLURGY ( $1\frac{1}{2}$  or 3)—Elementary study of fuels and furnaces and the metallurgy of iron and steel, copper, lead, silver and gold. Lectures or recitations three times a week first term. M. F. W. 4. If desired by a sufficient number of students the course will be continued through the second term, taking up the metallurgy of the minor metals and the more important wet chemical methods of extracting the metals from their ores. *Prerequisite: Chemistry 1.*

ASSOCIATE PROFESSOR STEEL.

2. ASSAYING (1 or  $1\frac{1}{2}$ )—Fire assaying of various classes of ores and furnace products for gold, silver and lead. Laboratory

work four or six hours a week on Saturdays, with occasional lectures and recitations, second term. *Text-book:* Rickets and Miller. *Prerequisite:* Chemistry 1.

ASSOCIATE PROFESSOR STEEL.

### Cement.

1. INTRODUCTORY COURSE (1½)—Outline of cement manufacture and methods of handling the materials with the detailed geology and description of the more important classes of deposits used for making cement. Lectures or recitations three times a week during the first term, with outside reading, to be followed by Geology 3. *Prerequisite:* Geology 2.

PROFESSOR PURDUE AND ASSOCIATE PROFESSOR STEEL.

2. ADVANCED COURSE (3½)—Description and critical study of cement-making machinery and its management; methods of mixing materials and correcting deficiencies to secure the correct chemical composition of the cement; general administration of the plant and the storing and marketing of the finished cement. This work will be given by lectures and outside reading for three hours a week the first term, and will be followed by the outline design, with drawings, of a projected cement plant, involving the selection of proper machinery from makers' catalogues, etc., and counting as four hours' credit during the second term. *Prerequisite:* Cement 1. ASSOCIATE PROFESSOR STEEL.

### PHILOSOPHY AND PEDAGOGY.

W. S. JOHNSON, *Professor.*

ROSE BLAND, *Training Teacher.*

The object of the courses offered in this department is (a) to afford general culture, and (b) to train those who expect to enter professional life, especially law, medicine, the ministry and teaching.

For those contemplating the professions of law, journalism and business, the following courses are recommended: 7, 8 and 9; Medicine: 7, 8 and 10; Teaching: 1, 3, 4, 5 and 6.

For the required course of study in the normal department, and the conditions under which the certificate of Licentiate of Instruction is granted, see pages 81-83.



Students selecting pedagogy as a major are required to take the following courses: 1 or 8a, 3, 4 or 8b, 5 and 6. The completion of these courses as a part of the work offered for the B. A. degree entitles the student to the Normal Diploma also, under conditions as given on page 83.

1. *ELEMENTARY PSYCHOLOGY (first term) (3)*—This course serves as an introduction to pedagogy. The course though open to all students in the collegiate department, is especially designed for the students in the normal department. The different functions of the mind are studied from the physiological and experimental standpoint. It is intended to make it as concrete as possible—by a study of the nervous system, and by experiments to demonstrate the action and interaction between the mind and the nervous tissue. *Text-books*: Buell's Essentials of Psychology, Gordy's New Psychology. M. W. F. 1, and M. W. F. 2.

2. *SCHOOL MANAGEMENT (1)*—This course serves as a general introduction to teaching and school management. It is open to all students of the University—both preparatory and collegiate. It is especially designed for those students who teach during the vacation or who expect to teach for only a short time. Students may attend these lectures without enrolling as members of the class. *Text-book*: Dinsmore's Teaching a District School. Th. 8.

3. *SCIENCE OF INSTRUCTION (2)*—The methods discussed are based on psychology. The broader generalizations of the science of education are studied, and the student learns to apply the principles of psychology to the work of teaching. During the first term the method of the recitation is studied, the special methods during the second term. Students may enter the second term. *Text-books*: McMurray's Method of Recitation, and Special Methods. T. Th. 1, and T. Th. 2.

4. *HISTORY OF EDUCATION (second term) (3)*—This course includes the study of the educational systems and methods of ancient, mediæval and modern nations; lives and theories of educational reformers; growth of education in the United States and in the State of Arkansas. *Text-books*: Monroe's Brief Course in the History of Education; Arkansas School Law. M. W. F. 1, and M. W. F. 2.

5. *CHILD STUDY (4)*—In this course it is intended to make a practical application of the principles studied in courses 1, 3, 4 and 6a. The characteristics of children as seen in the school-



room, at home and at play will be carefully studied. Topics assigned and discussed at the general critiques which are held twice each week. Daily practice teaching in the model school.

6. (a) EDUCATIONAL PSYCHOLOGY (*first term*) (2)—This course applied to the principles of psychology to the school-room. Special attention is given to such subjects as the sources of interest, the characteristics of imitation, heredity, attention, memory, imagination, emotions, will, and character. *Text-book*: Gar-lic and Dexter's Psychology in the School-room.

(b) SCHOOL ECONOMY (*second term*) (2)—Such subjects are discussed as school revenues and expenditures, school sanitation, course of study, grading the school in relation to society, government, and institute work. Assigned readings and reports.

7. ABNORMAL PSYCHOLOGY (1)—This course is designed to supplement course 8, and to discuss especially the psychological conditions and mental phenomena of sleep, dreams, hypnotism, somnambulism, sanity, insanity, illusions, hallucinations, mind reading, etc. This, as well as course 8, will be especially valuable to those students who expect to study law or medicine. It is intended to throw light on many of the peculiarities of mental life as exhibited in mankind. Lectures, discussion of reports. *No prerequisite (though desirable to be accompanied or preceded by course 1 or 8).*

8. (a) GENERAL PSYCHOLOGY (*first term*) (3)—This course discusses the general principles of the thought process. The mind is studied from the physiological, experimental, comparative and introspective points of view.

(b) LOGIC (*second term*) (3)—An introductory course in inductive and deductive reasoning. *Text-book*: Creighton's Introductory Logic. M. W. F. 7. *Open to Juniors and Seniors only.*

9. (a) ELEMENTS OF ETHICS (*first term*) (2)—The bearing on the standing of the theories of evolution, sociology, biology, economics, and political economy, as applied to real life. *Text-book*: Paulsen's A System of Ethics.

(b) INTRODUCTORY TO PHILOSOPHY (*second term*) (2)—This course is designed to present in an elementary way the principal philosophical problems. It may properly be taken by all who desire an acquaintance with philosophy as a means of culture. *Text-book*: Paulsen's Introductory to Philosophy.

## PHYSICS.

G. E. RIPLEY, *Professor.*S. A. ROWLAND, *Assistant.*

The following courses are given in order to meet the needs of the student of agriculture, of arts, of engineering and of natural science as well as for those students who may desire to pursue the subject for teaching or investigation purposes:

(a) ELEMENTARY PHYSICS—First semester.

(b) ELEMENTARY PHYSICS—Second semester. This is a continuation of (a).

Two hours a week are devoted to class work and two hours a week are devoted to work in the laboratory.

Required of those students who have not presented physics for entrance before course one can be taken, as also of those students in the preparatory department who take physics. *Text used:* Millikan and Gale, *A First Course in Physics.*

1. GENERAL PHYSICS (3)—Two hours a week throughout the year are devoted to recitation work and two hours a week to work in the laboratory. Must be preceded by (a) and (b) or their equivalent. *Required of all engineering students; elective for others who have had or are taking Freshman mathematics.* M. W. 3; T. Th. 3; T. F. 4; M. T. W. Th. 6, 7.

2. GENERAL PHYSICS (3)—A continuation of course 1. Lectures and recitations three hours a week throughout the year. *Required of Sophomores in electrical engineering; elective for others who have had course 1.* Special emphasis is placed upon mechanics, heat and electricity. M. T. W. 1.

2a. LABORATORY WORK (2)—Four hours a week throughout the year. This work must be taken the same year as course 2. A knowledge of calculus is desired. The work will include measurement of moment of inertia, torsion, center of mass, coefficient of friction and of elasticity, thermal expansion, conduction, Ohm's law, capacity, high and low potentials, photometry, etc. F. 5, 6, 7, 8.

3. EXPERIMENTAL PHYSICS (4)—Lectures and recitations from lessons assigned in text-book. Will include many demonstrations, experiments and problems with a systematic development of the important laws and principles of the subject and the application of the same to our every-day life. Three hours a week are de-

voted to class work and two hours a week to work in the laboratory.

This course is offered for those students who desire to acquire some knowledge of the important principles of physics but do not care to go further in the subject. This course is open to any student of college grade who has had college algebra and geometry.

4. MECHANICS ( $1\frac{1}{2}$ )—First semester. Five hours a week, mostly laboratory work. *Prerequisite: Course 1.* Elective for students of agriculture if followed by course 5.

5. HEAT ( $1\frac{1}{2}$ )—Second semester. Five hours a week, mostly laboratory work. *Prerequisite: Course 4.*

6. ELECTRICAL MEASUREMENTS (2)—First semester. In certain cases course 6 may be taken in place of course 5; otherwise it must be preceded by courses 4 and 5. Four hours a week are given to work in the laboratory and two hours a week to recitations and discussions. The theory of electrical measuring instruments and of electrical measurements is discussed in the class work, and in the laboratory the student will calibrate measuring instruments and test the properties of conductors, electrolytes and dielectrics.

7. LIGHT (2)—Second semester. Four hours' laboratory work and two hours' class work per week. The class work will deal largely with the modern theory of light and a discussion of the recent discoveries in this field. There will be some work in spectroscopy. The laboratory work will include use and study of the photometer, optical bench, interferometer, optical pyrometer, etc.

Courses 6 and 7 may be taken by students expecting to study medicine, but must be preceded by course 1.

8. MATHEMATICAL PHYSICS (3)—Three hours a week throughout the year. *Prerequisite: Courses 1, 4 and 5 or 6 and 7. A knowledge of calculus is required.*

9 and 9a. This course is arranged for students of chemistry and must be preceded by course 1. This work will deal largely with osmosis, vapor density, diffusion and electro-chemistry.

10. ACOUSTICS—Second semester. Two recitations a week and four hours' work in the laboratory. This will include a study of wave motions, emphasis being placed upon sonorous and electrical vibrations.



11. THE TEACHING OF PHYSICS—This course is arranged for those students who contemplate teaching physics in the secondary schools.

This work will take up a study of the methods of presenting the subject both in the class-room and in the laboratory. Reports will be made upon the different topics. The various secondary texts and manuals will be discussed and used in making the reports. *Prerequisite: Courses 1, 4, 5, 6 and 7.*

12. JOURNAL MEETING—Together with the department of chemistry, the instructors and students of the department of physics meet once a week, on Thursday, for report and informal discussion of articles in the current physical and chemical journals, and of such researches as may be carried on in the departments. Attendance is required of all students in the advanced classes.

### MECHANICAL ENGINEERING.

B. N. WILSON, *Professor of Mechanical Engineering and Superintendent of Mechanic Arts.*

B. MITCHELL, JR., *Associate Professor of Mechanical Engineering and Assistant Superintendent of Mechanic Arts.*

TERRY FIELD, *Adjunct Professor.*

H. W. DEAN, *Instructor in Mechanical Engineering.*

W. T. CRIPPIN, *Engineer.*

Two courses are offered, a four-year course leading to the degree of B. M. E. (see page 70), and a short course of two years for which a certificate is given (see page 84).

While a major part of a course in mechanical engineering necessarily consists of scientific and technical studies, the four years' course affords a good general education.

The course provides suitable training for young men having in view positions in the management of manufacturing processes, or plants where machinery is used extensively.

Besides the mathematical and scientific studies which constitute the necessary preparation for the study of engineering branches, instruction is given in mechanics, machine design, theory of steam and gas engines, etc. Special attention is given to the practical application of the truths and theories taught in the class-room, a part of the time being devoted to shop work, drawing and laboratory practice.



Sufficient instruction is given in the theory and use of electrical machinery to enable the student to use it intelligently.

In the Senior year the student is offered an elective in the branch of mechanical engineering in which he wishes to specialize.

**SHOP WORK—M. E. 1 (a)**, manual training. An advanced course in manual training suitable for students preparing to teach manual training in schools where the equipment is limited.

The course consists of a graded set of exercises in wood, the care and use of tools and problems in cabinet making.

At the beginning of each shop period subjects are discussed that are closely related to the work. Shops, M. Tu. 1, 2, 3, 4 periods.

(b) **FOUNDING**—Green sand moulding; melting and pouring brass and iron; core making. This work is made as practical as possible. Shops, M. Tu. 5-7; W. Th. F. 1-3, 5-7; Sat. 1-3 period.

(c) **FORGING**—Management of fires; drawing and welding; riveting and tempering; case hardening and annealing. M. 5-7; Tu. W. Th. F. 1-7; Sat. 1-4 periods.

(d) **PATTERN MAKING**—Practice in making patterns; care and use of wood-working machinery. M. Tu. 5-7; W. Th. F. 1-3, 5-7; Sat. 1-3.

(e) **MACHINE SHOP PRACTICE**—Exercises in chipping and filing; practical work in turning; planing; drilling; grinding; use of milling machine; erection of machinery. M. 5-7; Tu. W. Th. F. 1-7; Sat. 1-4.

(f) **ADVANCED WORK**—In any of the above courses.

2. (a) **MECHANICAL DRAWING (2 or 3)**—Lettering, geometrical drawing; copying machine drawings; working drawings from machine parts; tracing; blue printing. M. Tu. or Th. F. 6-7.

(b) **MECHANICAL DRAWING (2)**—Perspective and isometric drawings; intersections; development; detail drawing; blue printing. M. Tu. or Th. F. 6-7.

(c) **ARCHITECTURAL DRAWING (2)**—Conventional methods of representing different materials of construction; standard details of buildings; plans; elevations; sections; working drawings; tracing. *Prerequisite: M. E. 2 (a) or an equivalent.* M. Tu. or Th. F. 6-7.

3. **MACHINE DESIGN (3)**—Kinematics of machinery; design of gear teeth; link motions, cams, etc. One hour's recitation and

six hours' drawing per week. M. 4 and M. Tu. 5, 6, 7, or Th. F. 5, 6, 7.

4. (a) ELEMENTARY MECHANICS—An elementary course in mechanics and hydraulics. M. Tu. Th. 2.

(b) THEORETICAL MECHANICS (*first term*) (4)—The application of mathematics to the movement of bodies. Mathematical discussions of force, inertia, energy, etc. *Text*: Wright's Mechanics. M. Tu. W. Th. first period. *Required of all Junior engineers.*

(c) MECHANICS OF MATERIALS (*second term*) (4)—The materials of construction: Timber, stone, iron, steel, cement, brick, etc., are studied. The formulæ for the figuring of strength of beams, columns, shafting, etc., are developed. Numerous applications of the formulæ to practical problems are made. *Text*: Merrimas' Mechanics of Materials. M. Tu. W. Th. first period. *Required of all Junior engineers.*

5. (a) STEAM ENGINES AND BOILERS (3)—Elementary theory of steam engines and boilers; care and management of same; valve gears. Three hours per week one year. Tu. Th. 3; F. 1.

(b) STEAM ENGINES AND BOILERS (*first term*) (3)—Elementary thermodynamics; theoretical heat engines; valves; valve gears; comparison of types of steam engines, boilers and feed water pumps; use of feed water heater, condensers, etc., discussed. T. Th. 3; F. 1.

(c) GAS ENGINES AND PRODUCERS (*second term*) (3)—Development and theory of different types of gas and oil engines discussed. Suction and pressure producers studied. Cost of gas and steam power compared. *Text*: Carpenter's and Deaderichs' Internal Combustion Engines. Tu. Th. 3; F. 1.

6. EXPERIMENTAL ENGINEERING (2)—Calibration of engineering instruments, indicators, steam gauges, planimeters, nozzles, meters, weirs, etc.; tests of materials of construction in tension, torsion, compression and bending; valve setting. *Text-book*: Experimental Engineering, Carpenter. Four hours' laboratory work per week. W. 4, 5, 6, 7.

7. MACHINE DESIGN (4)—Theory of steam and gas engines; problems in steam and gas engines and boiler design. One recitation, six periods of drawing. W. 3.

8. EXPERIMENTAL ENGINEERING (2)—Complete tests of different types of steam engines, boilers, pumps, gas engines, oil engines, turbines, special investigations. F. 5, 6, 7, 8.

9. HYDRAULICS AND HYDRAULIC MACHINERY—Hydraulics and Hydrostatics the second term during Junior year and a study of the design, construction and operation of turbines and pumping machinery the first term of the Senior year. *Text-book*: Treatise on Hydraulics, Merriman. Two recitations per week. (Tu. Th. 4.)

10. METHODS OF ICE-MAKING, COLD STORAGE (2)—Theory of the absorption and compression systems of ice-making; ice-making machinery; cost of making; buildings; insulation of storage rooms. *Prerequisite*: M. E. 5 (b).

11. HEATING AND VENTILATION (3)—The theory of heating and ventilation is studied, including the flow of air and products of combustion in pipes and chimneys. The sources of the impurities in the air are thoroughly gone into. The requirements of good ventilation are considered, and the movement of air for ventilating purposes by fans and other means compared.

The different systems of heating by furnaces, steam and hot water are studied from the text, working drawings being made by the students of each system of heating, and the merits of each is fully treated; contracts, specifications, bills of material and cost of the different plants prepared.

12. STEAM ENGINEERING (4)—Mechanical engineering of power plants; selection of machinery for equipment of power stations; plans and specifications. One lecture and six hours' drawing per week, first term. *Prerequisite*: M. E. 5.

13. MACHINERY AND MILL WORK (4)—Discussions of the different methods of distributing power in mill work; considerations controlling the design of the power plant; specifications. One hour's lecture and six hours' drawing per week, second term.

14. RAILROAD ENGINEERING (4)—Design and construction of locomotives; repairs for rolling stock; discussion of the problems relating to the mechanical engineering of railroads. Second term. *Prerequisite*: M. E. 4 and 5.

15. EXPERIMENTAL ENGINEERING (2)—An advanced course in laboratory investigation for students desiring to take up a definite line of experiments related to some line of study in this department. The course of experiments and tests will be arranged to suit the needs of small sections.



## CIVIL ENGINEERING.

J. J. KNOCH, *Professor.*

V. P. KNOTT, *Associate Professor.*

L. B. SHAVER, *Adjunct Professor.*

The design of this department is to furnish a course of theoretical instruction, accompanied by illustrations and as much of engineering practice as can well be taught in schools. This course will give the student a knowledge of the fundamental principles required to enter intelligently upon the various branches of engineering belonging to this profession.

The special technical studies, which are offered in this course, may be grouped under the heads of surveying, applied mechanics, road and railroad engineering, hydraulic engineering, bridge engineering, and sanitary engineering. A general outline of the course is found on page 71.

*Instruction*—The work in surveying extends over three years. It embraces land surveying, leveling and United States public land surveys during the Sophomore year; topography, railroad reconnoissance and location during the Junior year; triangulation and geodesy during the Senior year. Much time is devoted to practice in the field and drafting room, this work being carried on parallel with the classroom work. Each year a party of engineering students go into camp one week for practice in surveying and locating railway lines.

1. DESCRIPTIVE GEOMETRY (2)—Recitation and practice first term. *Text-book:* Church's Descriptive Geometry: Engineering Hall. Th. 8:30-9:30; M. 1:30-3:20.

1a. DRAWING (2)—Selection and care of instruments. Drawing geometrical figures, conventional representation of materials, copying and tracing working drawings, and drawing from models. Two afternoons throughout the year. Engineering Hall. T. W. 1:30-3:20.

2. SURVEYING (*with 3*) (3)—First, and part of second term. Care, use, and adjustment of instruments, use of chain, tape, compass, transit, solar attachment, level, sextant, and plane table; land surveying, leveling, contouring, laws, and instructions relating to surveys of the public domain. *Text-book:* Raymond's. Engineering Hall. T. F. 8:30-9:30.



3. FIELD PRACTICE—Exercises in land, city and topographical surveying. One afternoon throughout the year. Th. 12:40-4:00.

4. HIGHWAYS (1)—One hour per week, second term. The location, construction, and maintenance of common, Macadam, and Telford roads; brick, stone, wood, and asphalt pavements for city streets. *Text-book*: Spalding's Roads, Streets and Pavements. Engineering Hall. Th. 8:30-9:25.

4a. ARCHITECTURAL DRAWING (1)—One hour per week, second term. Elementary course in architecture; drawing plans and elevations of simple structures; analysis of plans. M. 1:30-3:20.

5. RAILROAD ENGINEERING (2)—Two hours per week throughout the year. Preliminary surveys and location; transition curves, yards, and turnouts; estimates of earthwork and material used in construction; the economics of railroad location and management. *Text-books*: Searle's Field Engineering, and Crandall's Transition Curve and Earthwork Computations, first term. Engineering Hall. T. Th. 10:20-11:15.

6. FIELD PRACTICE (2)—Location of curves, turnouts and Y's; measurement of embankments and cuts, and computation of volumes. Four hours a week throughout the year. F. 12:40-4:00.

7. RAILROAD SURVEY—One week, twelve hours per day. Actual field practice in reconnoissance, preliminary survey, and location.

8. DRAWING (2)—Lettering titles for maps and drawings. Pen and colored topography. Four hours a week throughout the year. Engineering Hall. M. W. 8:30-10:20.

8a. DRAWING (2)—Lectures and practice two afternoons a week throughout the year. Shades, shadows and perspective. Topographical and railroad maps from actual surveys; masonry dams, structural details, and working drawings for designs. Engineering Hall. M. T. 1:30-3:20.

9. MASONRY CONSTRUCTION (2)—Two hours per week, first term. Use of lime and hydraulic cement mortars; stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams, cribs and caissons. *Text-book*: Baker's Masonry Construction. Engineering Hall. W. Th. 11:15-12:10.

10. ROOFS AND BRIDGES (3)—Four hours per week, first term; three hours, second term. Theory of computation of stresses by both analytical and graphic methods; full computations, designs

and bills of materials for a roof truss and railroad bridge. *Text-books:* Merriman and Jacoby's Roofs and Bridges, Parts I, II and III. Engineering Hall. M. T. W. F. 9:25-10:20.

II. SANITARY ENGINEERING (2)—Two hours per week, first term. Calculation and special details of construction of sewers; separate and combined systems of sewerage; purification of sewage; municipal and domestic sanitation. *Text-book:* Folwell's. Engineering Hall. T. F. 8:30-9:25.

12. TECHNICAL DRAWING (2)—Lectures and practice, four hours per week throughout the year. Right and oblique arches; drawings for computation of course 10. Engineering Hall. T. W. 1:30-3:20.

13. WATERWORKS ENGINEERING (3)—Three hours per week, second term. Study of systems of water supply; collection, purification and distribution of water; location of waterworks, with details of estimate of cost; turbines and pumping engines. *Text-book:* Folwell's Water Supply Engineering. Engineering Hall. W. Th. F. 9:25-10:20.

14. ENGINEERING LABORATORY (2)—Two hours per week, first term. Test of strength and other properties of materials of construction; tensile and crushing tests of brick, stone and cement; flow of water through pipes, elbows, valves and measurement by means of weirs. Engineering Hall. F. 12:40-4:00.

15. FIELD PRACTICE (2)—Two hours per week, first and second terms. Topographical survey, triangulation, precise leveling, and practical astronomy. Th. 12:40-4:00.

16. CONTRACTS AND SPECIFICATIONS (3)—Elective for Seniors in Engineering. Lectures and recitations three times per week. *Text-books:* Johnson's Contracts and Specifications; Wait's Engineering and Architectural Jurisprudence. Engineering Hall. M. T. W. 9:25-10:20.

**ELECTRICAL ENGINEERING.**

W. N. GLADSON, *Professor.*

L. S. OLNEY, *Associate Professor.*

V. A. HARDING, *Adjunct Professor.*

Two courses of instruction are offered in electrical engineering. The four years' course described on page 72 is intended to afford a good general education, and at the same time to ground the student so thoroughly in the principles of electrical engineering as to furnish a good foundation for the profession.

Theory is amply treated and tested by experiments in well equipped laboratories, thus affording the student a degree of facility in the use of instruments and machines which is acquired only by continued practice. As a requisite for graduation each candidate must present an acceptable thesis, embodying the results of special study. The object of such study must lie within the field of electrical engineering. It must be announced not later than the beginning of the second term of the Senior year, and be approved by the professor in charge. The completed thesis must be submitted not later than two weeks before commencement day, and one copy must be deposited in the library as the property of the University.

The short course of two years described on page 85 is designed for students lacking time and preparation for the full course, and is intended especially for those who have had some practical experience in engineering. The work is more elementary than in the long course, embracing only necessary mathematics, which, with mechanics, electrical engineering and laboratory work, gives the student sufficient theory, supplemented by practice, in the shortest possible time.

1. ELECTRICAL ENGINEERING (5)—Recitations five times a week throughout the year. On electrical machinery installation and operation; underwriters' rules. *Text-books:* Introduction to the Study of Electrical Engineering, by Norris, and Management of Dynamos and Motors, by Croker and Wheeler. Engineering Hall. M. — F. 3. ADJUNCT PROFESSOR HARDING.

2. FREEHAND AND MECHANICAL DRAWING (2)—Practice four hours a week, first term; freehand drawing from models and



machine parts; lettering; line shading; dimensions; second term, mechanical drawing. Care and use of instruments; copying of mechanical drawings; blue printing; scale drawings from models and machine parts; line shading. *Text-book*: Mechanical Drawing, by A. K. Cross. Engineering Hall, 2d floor. M. Th. 6, 7.

ADJUNCT PROFESSOR HARDING.

2a. DRAWING (2)—Recitations and practice two hours a week throughout the year. Accurate mechanical drawings from electrical machinery; architectural drawings; perspective; shades and shadows; orthographic projections. *Text-books*: Mechanical Drawing, by A. K. Cross, and Handbook of Perspective, by Otto Fuchs. Engineering Hall, 2d floor. M. T. 6, 7.

ASSOCIATE PROFESSOR OLNEY.

3. TECHNICAL DRAWING (2)—Lectures and practice two hours a week throughout the year. Working drawing of electrical apparatus; elementary machine design; wiring plans designed by students; specifications and estimates. Engineering Hall, 2d floor. M. T. 6, 7.

PROFESSOR GLADSON.

4. TECHNICAL DRAWING (2)—Lectures and practice four hours a week throughout the year; an extension of course 3 and must be preceded by it. Drawings of circuit and machine, electrical calculations, and mechanical designs of electrical machinery; complete power plants designed by student. Engineering Hall, 2d floor. M. T. 6, 7.

PROFESSOR GLADSON.

5. ELECTRICAL LABORATORY (2)—One afternoon a week throughout the year. An extended course in magnetic and electrical measurements; current, electro-motive force and resistance; use and calibration of instruments; exploration of magnetic fields; testing of direct current dynamos and motors. Engineering Hall, basement. Th. 5, 8.

PROFESSOR GLADSON, ASSOCIATE PROFESSOR OLNEY and ADJUNCT PROFESSOR HARDING.

6. ELECTRICAL LABORATORY (2)—One afternoon a week throughout the year. A full experimental course in operating and testing direct and alternate current machines; photometry transmission, storage and transformation of electric energy. Special courses given suited to the preparation and object of the student. Engineering Hall, 1st floor. F. 5, 8.

PROFESSOR GLADSON, ASSOCIATE PROFESSOR OLNEY.



7. DYNAMO-ELECTRIC MACHINERY (3)—Recitations three hours a week throughout the year. Confined chiefly to direct current apparatus, including types of motors, generators, and transformers; designs, calculations, construction, testing and operating. *Text-book*: Thompson's Dynamo Electric Machinery, Vol. I. Engineering Hall, 2d floor. M. T. W. 2.

ASSOCIATE PROFESSOR OLNEY.

8. THEORY OF ALTERNATE CURRENTS (3)—Recitations three times a week first term. *Text-book*: Alternating Current Phenomena, by C. P. Steinmitz. Engineering Hall, 1st floor. M. T. W. 1.

PROFESSOR GLADSON.

9. POLYPHASE ELECTRIC CURRENTS (3)—Recitations and lectures three times a week second term. *Text-book*: Thompson's Dynamo Electric Machinery. *Reference books*: Alternating Current Motors, McAlester, and technical journals. Engineering Hall, 1st floor. M. T. W. 1.

PROFESSOR GLADSON.

10. ELECTRIC RAILWAYS (2)—Recitations and lectures twice a week, second term. *Text-book*: Electric Railway Engineering, by Parshall S. Hobart. Engineering Hall, 1st floor. Th. F. 2.

PROFESSOR GLADSON.

11. TELEPHONY AND TELEGRAPHY (2)—Recitations and lectures twice a week throughout the year. *Text-books*: K. B. Miller's American Telephone Practice and American Telegraphy, by Mayer. Engineering Hall, 1st floor. Th. F. 1.

12. ELECTRIC MACHINERY (3)—Recitations three times a week on direct and alternate current dynamos and motors; their application to light, power railway, mining and manufacturing. *Text-books*: Introduction to the Study of Electrical Engineering, by Norris, and Dynamo Electric Machinery, by Franklin and Estey. Engineering Hall, 2d floor. W. Th. F. 1.

ASSOCIATE PROFESSOR OLNEY.

13. POWER STATIONS (2)—Lectures and recitations two hours a week, first term. Selection of machinery for power stations; steam, hydraulic, gas, and electrical. Station construction, operation and management. Senior elective. PROFESSOR GLADSON.

14. ELECTRIC TRANSMISSION AND DISTRIBUTION (2)—Recitations and lectures two hours a week, second term. A study of the different methods of electrical power distribution for light, railway or stationary power; long distance transmission. Senior elective.

PROFESSOR GLADSON.

**MILITARY DEPARTMENT.**

C. F. ARMISTEAD.

The head of the military department is an officer of the United States Army, detailed by the War Department for duty at the University.

All male students over fifteen years of age, not physically disabled, are required to take the practical course in military science, including infantry drill, target practice, guard duty, and various other exercises. This practical course covers the entire period of the students' stay at the University.

The act of Congress donating public lands for educational purposes requires that institutions which are the beneficiaries of such donations include military science and tactics in their course of instruction.

The system of instruction closely follows that used in the United States Army, but it is not the object of the military department to make soldiers of the students of this University, but through a modified form of military discipline to promote habits of neatness, order and punctuality.

The cadets are organized into one battalion, composed of field, staff, band, and six companies. The officers and the non-commissioned officers are selected from those cadets who are most proficient in their drill and military studies, and most exemplary in their deportment. The captains and the lieutenants are taken from the Senior and the Junior classes, and the sergeants and the corporals from the Sophomore class.

Each cadet is required to supply himself with the following articles of uniform clothing:

One (1) blouse.

One (1) pair trousers.

One (1) Cap.

Two (2) pairs of white duck trousers.

Two (2) pairs of white cotton gloves.

Three linen collars.

The contract for supplying the above named articles is let each year by the Board of Trustees to the lowest and best bidder and the goods are delivered to the cadets by the agent of the successful bidder.

The cadet band, of thirty pieces, constitutes an interesting feature of the military organization. It receives the best instruction possible and takes part in all the military ceremonies.

Competitive drills are held at the close of each college year and prizes awarded for proficiency in this department.

The three students of the Senior class having the highest grade of merit in this department are reported to the Secretary of War. The President of the United States, in appointing officers from civil life, gives preference to those whose names are so recorded. Cadet officers on graduation are breveted in the State Guard with the rank held by them in the cadet battalion at the date of their graduation.

The following is prescribed as the minimum course of military instruction, practical and theoretical:

PRACTICAL—Infantry Drill Regulations; Field Service Regulations; Manual of Guard Duty; Firing Regulations for Small Arms.

THEORETICAL—Instruction shall include the portions of the above subjects covered by the practical instruction, and may be supplemented by lectures. Under the authority of the President of the United States the military department is inspected every year by an army officer specially detailed for this purpose. A copy of the report of inspection is furnished the President of the University by the War Department.

## DEPARTMENT OF PHYSICAL CULTURE AND ATHLETICS.

HUGO BEZDEK, *Director.*

The purpose of this department is to build up and maintain a good physical condition of the students and, through athletic contests in the popular college sports, to divert their minds from a too closeted life. Recognizing the fact that vigorous health is the basis for the best results in scholarship, the authorities have made physical exercise of some sort compulsory. The girls' gymnasium contains modern equipment and is directed by a woman instructor. The prevalent systematic instruction is in vogue. Military drill is required of the men unless they are excused for participation in athletics.

The popular sports, such as foot ball, base ball, track, basket ball and tennis are taught and have representative teams. Secondary teams in these lines, such as 'Varsity scrubs and class teams, are organized and instructed, so that every one who enjoys these pastimes may receive their full benefit. This branch of the department is fully controlled by the faculty, the object being to foster clean sportsmanship.



# THE COLLEGE OF AGRICULTURE

Fayetteville.

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JOHN NEWTON TILLMAN, LL. D.,

*President.*

CHARLES FREDERICK ADAMS, B. Agr., A. M., M. D.,

*Acting Dean and Professor of Entomology.*

ROBERT ROBSON DINWIDDIE, M. D., V. S.,

*Professor of Animal Husbandry.*

ERNEST WALKER, B. S. A.,

*Professor of Horticulture.*

VICTOR ALBERT HOOPER,

*Professor of Dairy Husbandry.*

WILFRID LENTON, V. S.,

*Professor of Veterinary Science.*

RUFUS J. NELSON, B. S., M. S.,

*Professor of Agriculture.*

W. M. BRUCE, A. M., Ph. D.,

*Professor of Agricultural Chemistry.*

MARTIN NELSON, B. S. A., M. S.,

*Professor of Agronomy.*

JOSEPH LEE HEWITT, B. S.,

*Adjunct Professor of Horticulture.*

CARL H. TOURGEE, B. S. A.,

*Adjunct Professor of Dairy Husbandry.*

WILFRED S. JACOBS, B. S. A.,

*Adjunct Professor of Agronomy.*

ALBERT K. SHORT, B. S.,

*Adjunct Professor of Animal Husbandry.*

H. D. YOUNG, B. S.,

*Adjunct Professor of Agricultural Chemistry.*

Instruction in the College of Agriculture is divided into the following departments:

- ✓ 1. Department of Animal Husbandry.
- ✓ 2. Department of Horticulture.

3. Department of Agricultural Chemistry.
4. Department of Dairy Husbandry.
5. Department of Entomology.
6. Department of Veterinary Science.
7. Department of Agronomy.
8. Department of Agriculture.

The College of Agriculture, while distinct from the other divisions of the University in its buildings and equipment, is closely correlated in its work.

In addition to the regular classes in the College of Agriculture, the students will be admitted to the library, museum, laboratories, and to all lectures and instruction of the University, and to all other rights and privileges granted to other students.

Two courses in agricultural work are offered. They are:

1. THE COLLEGIATE COURSE of four years, leading to the degree Bachelor of Science in Agriculture. It is designed to give the student a broad education in the sciences and arts related to agriculture. The work for the first two years is prescribed, the subjects being so chosen as to offer a good foundation for the more specialized work of the Junior and Senior years. The work in the Junior and Senior years will consist of ten hours in a major subject, six hours in minor subjects, eight hours in language and English, and eight hours of elective work.

This course is described in detail on pp. 133-134.

2. A SPECIAL COURSE of two years for eight weeks each year. This is made up of the most practical of the subjects offered in the four-year course. Necessarily, it does not offer so great opportunities for special work, nor so broad an education, still it does offer a thoroughly practical and comprehensive treatment of the most important phases of scientific farming.

This course is outlined on pp. 142 *et seq.*

### THE COURSE IN AGRICULTURE.

For requirements for admission see p. 41.

The following outline shows, in the work of the first two years, the basis on which specialization in the third and fourth is to

rest. At the beginning of the Junior year each student must choose his major subject. The choice of his language subject, and of his minors, together with the details of his major, will then rest with the professor who has in charge the subject he has chosen as his major.

The major is to be chosen in one of the departments of the College of Agriculture, and it shall include a thesis based upon original research made by him, or upon some subject included in his course of study, or an original report upon some work of agricultural investigation. This thesis must be approved by the faculty, and must be handed to the professor in charge of the major subject, not later than April 1st of the Senior year.

The minor subjects shall be as many as two, and not more than three, and shall be allied to the major.

### Freshman Year.

FIRST TERM.	Hrs.	SECOND TERM.	Hrs.
English (1), T. M. Th. 2.....	3	English (1), T. M. Th. 2.....	3
Chemistry (1), M. W. 3, M. 5, 6, 7.....	3	Chemistry (1), M. W. 3, M. 5, 6, 7.....	3
Biology (1), F. 6, Th. 3, 4.....	3	Chemistry (1a), T. Th. 1, W. 5, 6, 7.....	3
Plant Physiol. (1a), W. F. 2, Th. 6, 7, 8.....	3	Biology (1), F. 6, T. Th. 3, 4..	3
Agronomy (1a), T. Th. F. 6, 7	3	Agronomy (2b), T. Th. 6, 7, W. 1, 2.....	3
Animal Husbandry (1a), M. W. 1.....	2	Animal Husbandry (1b), W. F. 2.....	2

### Sophomore Year.

FIRST TERM.	Hrs.	SECOND TERM.	Hrs.
Chemistry (1a), T. Th. 1.....	2	Physics (1), M. W. 3, F. 6, 7, 8	3
Physics (1), M. W. 3, Th. 6, 7, 8.....	3	Agricul. Chem. (1b), T. Th. 1	2
Shop Work, W. 5, 6, 7.....	1	Shop Work, W. 5, 6, 7.....	1
Mechan. Drawing, M. T. 5, 6, 7.....	2	Horticulture (1b), T. Th. F. 3.....	3
Entomology (1a), T. Th. 2, F. 2, 3, 4.....	3	Dairying (1b), M. T. 2, 6, 7...	4
Agronomy (3a), M. W. F. 2...	3	Veterinary Sci. (1), M. 1, S. 2.....	2
Veterinary Sci. (1), M. 1, S. 2	2	Agronomy (4b).....	.....

JUNIOR YEAR.	Hrs.	SENIOR YEAR.	Hrs.
Major.....	5	Modern Language.....	3
Minor.....	3	Major.....	5
Agriculture 8, 9.....	2	Minor.....	3
Agronomy (5a).....	5	Elective.....	5
Elective.....	3		

### The Courses in Detail.

It is provided that any subject offered below but not prescribed in the above outline may be withdrawn unless four or more students enroll for it.

Subjects having the letter (a) following the number are offered only in the fall term, those with the letter (b) only in the spring term, and those with no such letter extend throughout the year.

### ANIMAL HUSBANDRY.

R. R. DINWIDDIE, *Professor.*

A. K. SHORT, *Adjunct Professor.*

1. (a) STUDY OF FARM ANIMALS—Elementary study of breeds and types and feeding. Two hours. M. W. 1. *Text-book:* Wilcox's Farm Animals.

(b) TYPES AND BREEDS OF FARM ANIMALS—History of development of breeds and types. Two hours. W. F. 2. *Text-book:* Types and Breeds, by C. S. Plumb. *Required of Freshmen.*

2. (a) STOCK JUDGING—In addition to text-book studies, practical exercises will be given on the use of the score-card in judging the various breeds and classes of farm animals. Two hours. T. Th. 1. *Text-book:* Craig, Live Stock Judging.

(b) FEEDS AND FEEDING—Selecting and compounding rations; experimental feeding; rations for beef and pork production; mill feeds, forage and pasture, and their uses in stock feeding. In addition to text, as far as possible, practical work will be given in feeding. Two hours. *Text-book:* Profitable Stock Feeding, by Smith. *Elective.*

3. PRINCIPLES OF LIVE STOCK BREEDING—Study of the laws governing heredity, variation, correlation, etc. Methods employed for improvement of live stock. Study of pedigrees. *Elective.*



4. ADVANCED WORK IN JUDGING, FEEDING, HANDLING AND CARE OF LIVE STOCK—Special work in fitting show stock. *Elective*.

This course is intended to give the agricultural student a practical knowledge of live-stock husbandry as an essential part of general farming.

## HORTICULTURE.

ERNEST WALKER, *Professor*.

J. L. HEWITT, *Adjunct Professor*.

1. (a) PLANT PHYSIOLOGY—A study of the subject from the standpoint of the agricultural student. Three hours. W. F. 2; Th. 6, 7, 8. *Required of Freshmen*.

1. (b) FRUIT CULTURE—Orcharding; viticulture; with reference to varieties and kinds best adapted to the State; cultivation; marketing; fungus diseases, spraying and other methods of control. *Required of Sophomores*. Three hours. Tu. Th. F. 3.

2. (a or b). HORTICULTURAL STRUCTURES AND IMPLEMENTS—Hot-beds; cold-frames; pits; greenhouses; other structures; implements of cultivation. Two hours. *Elective*.

3. (a) PLANT PROPAGATION AND PLANT GROWING—The various methods by which plants are propagated. Principles of plant growth; requirements of growing plants. Three hours. *Elective*.

(b) SMALL FRUITS AND VEGETABLE GARDENING—Bush fruits; strawberries; care; fungus diseases; vegetable gardening. *Elective*.

4. SPECIAL WORK AND PRACTICE—Technical study and handicraft for advanced students. The work will be arranged to suit the needs of the student. *Elective*.

5. (a) HORTICULTURAL LITERATURE—*Elective*.

(b) SPECIAL STUDIES AND REPORTS—This, with 5 (a), is intended to supplement 4. It should be taken only in connection with 4. *Elective*.

6. (a) FORESTRY—An elementary course of lectures, either for a general knowledge of the subject, or as an introduction to more advanced work. Two hours. *Elective*.

(b) LANDSCAPE GARDENING—A general consideration of the subject from the standpoint of its bearing upon the home and school grounds. For more technical work, 4 may be taken. Two hours. *Elective*.

7. (a) GREENHOUSE METHODS AND FORCING—Principles of greenhouse management; temperature, watering, forcing of vegetables and flowers. Two hours. *Elective*.

(b) FLORICULTURE—Detailed study of important greenhouse flowers; commercial floriculture. Two hours. *Elective*.

8. THESIS—Experiment station work. *Required of Seniors with Horticulture major*. Hours to be arranged. *Elective*.

10. (a) COMMERCIAL POMOLOGY—A study of markets and the marketing of fruits; harvesting, storing, transportation, packing, accounting. Two hours. *Elective*.

(b) EVOLUTION OF CULTIVATED PLANTS AND PLANT BREEDING—A historical sketch of the important fruits; principles of plant breeding; hybrids; selection; variation. *Elective*.

### AGRICULTURAL CHEMISTRY.

W. M. BRUCE, *Professor*.

H. D. YOUNG, *Adjunct Professor*.

1. (b) AGRICULTURAL CHEMISTRY—This course will consist of the chemistry of plant and animal life. Two hours. T. Th. 1. *Required of Sophomores*.

2. AGRICULTURAL CHEMISTRY—This course will consist of lectures and laboratory work on fertilizers, soils, inorganic plant constituents, insecticides and fungicides, tannin materials, foods and feeding stuffs, cattle foods, cereal foods, canned vegetables, saccharine products, sugarhouse methods, fruits and fruit products, wine, beer, distilled liquors, vinegar, meat and meat products, dairy products, edible fats and oils, cocoa, tea, coffee, flavoring extracts, spices, condiments other than spices, baking powder and baking-powder chemicals, food preservatives, coloring matter and drugs. Any or all of this course is elective, with hours to be arranged.

### DAIRYING.

V. A. HOOPER, *Professor*.

C. H. TOURGEE, *Adjunct Professor*.

1. (b) DAIRYING—The composition of milk; methods of handling for butter and cheese making; condensories; city supply; milk testing; butter making. Two laboratory and two recitation periods per week. M. T. 2, 6 and 7. Four hours. *Required of Sophomores*.

2. (a) DAIRY CATTLE—The origin, history and characteristics of the dairy breeds; tabulating pedigrees; the advanced registry of each breed; the value and method of making official records; practice in judging according to breed standards. Three hours. *Elective*.

3. (b) THE DAIRY HERD—The formation, feeding and management of the dairy herd. Establishment of grade herds by selection and grading up with pure-bred sires; establishment of pure-bred herds; compounding rations; economical methods of summer and winter feeding; herd improvement by selection, breeding and testing; constructing dairy barns. Three hours. *Elective*.

4. (a) CITY MILK SUPPLY—The value of milk as a food; the production and control of market milk; prevention of contamination; pasteurizing; bottling and delivering milk; certified, modified, pasteurized and standardized milk. Two hours. *Elective*.

5. (a) MILK TESTING—A thorough study of the Babcock test for all dairy products; the tests for the acidity of the milk; the lactometer and the detection of adulterations. Three hours. *Elective*.

6. (a) BUTTER MAKING—The composition of milk and butter; separation of milk by gravity and centrifugal force; pasteurization; the use of different kinds of pure culture; cream ripening; churning; working, printing, packing and marketing butter. Five hours. *Elective*.

7. (b) CHEDDAR CHEESE—Practice in selecting, ripening, and setting milk; cutting, cooking, and dipping the curd; milling and salting curds; curing and marketing cheese. Five hours. *Elective*.

8. (a) DAIRY MANUFACTURES—A special study of the problems in the manufacture of cheese and butter; the management of cheese factories and creameries under co-operative companies; locating, building and equipping plants; methods of paying patrons; factory accounting; marketing products. Four hours. *Elective*.

9. (b) SCORING BUTTER AND CHEESE—Lectures and practice in judging butter and cheese. One hour. *Elective*.

10. INVESTIGATION AND THESIS—Experiment Station work in dairying. Thesis subject as arranged.



## ENTOMOLOGY.

C. F. ADAMS, *Professor.*

1. (a) GENERAL ENTOMOLOGY—Lectures and laboratory work on anatomy, physiology, metamorphosis, classification and habits of insects. Special attention is given to the economic relation of insects to agriculture. Inspection and method of control, including machines and insecticides, are considered. Two recitations and three hours' laboratory per week. *Prerequisite: Biology. T. Th. 2, F. 2, 3, 4. Required of Sophomores.*

2. (a) ADVANCED ENTOMOLOGY—A course in insect morphology. Lectures and laboratory work on gross and minute anatomy, physiology, embryology and neurology. Must be preceded by course 1. Three hours. *Elective.*

3. SYSTEMATIC ENTOMOLOGY—Mostly laboratory work on classification of the Hexapods. Course 1 is required and course 2 is desirable as a prerequisite. The nature of the work will depend somewhat on the preparation of the student. He will be given the privilege of selecting any group for special study. Three hours. *Elective.*

4. ADVANCED ECONOMIC ENTOMOLOGY—Mostly laboratory work on beneficial and injurious insects. The student is expected to make use of the available literature in his studies of the various economic problems. Three hours. *Elective.*

5. INSECT BINOMICS—Lectures and demonstrations on variations, distribution, dimorphism, mimicry, development of color patterns, ecology and phylogeny of insects. Must be preceded by courses 1 and 2. Three hours. *Elective.*

6. RESEARCH—Work given for the special student. After he has selected his special problem, the student is expected to carry on his studies under the direction only of the head of the department. *Prerequisites depend on the nature of the problem.* Three hours. *Elective.*



**VETERINARY SCIENCE.**WILFRED LENTON, *Professor.*

1. VETERINARY SCIENCE—This course comprises a general outline of veterinary anatomy and physiology, diseases of animals and their treatment, and simple surgery. Two hours. M. 1, S. 2. *Required of Sophomores.*

2. VETERINARY SCIENCE—This course consists of anatomy and physiology of the domesticated animals; dentition and the determination of age by the teeth; lameness—its causes, prevention and cure; ventilation and disinfection; contagious diseases and diseased processes; methods of restraint and anesthetics; surgery.

Any or all of this course is elective. Hours to be determined.

**AGRONOMY.**MARTIN NELSON, *Professor.*W. S. JACOBS, *Adjunct Professor.*

Agronomy is the science of the field, the soil and its crops. The study of the soil is conducted from the standpoint of the fundamental principles of the management of the soil for crop production and to afford opportunity for special study in particular fields of the subject. The study presupposes a fair understanding of the general principles of Physics, Chemistry and Plant Physiology.

The study of crops is conducted from the standpoint of the fundamental biological and physiological principles underlying the growth, adaptation and improvement of plants and economic and business management of the field and its crop. The study presupposes a general knowledge of the field of Botany.

1. (a) AGRONOMY—The course comprises a study of crops—grains, fiber crops, grasses, clovers, forage and miscellaneous crops. It consists of a study of types, varieties, strains, quality, market standards, the use of score cards, grading and identification. Stress is placed upon the staple crops. Lecture and laboratory work combined. Continues through both terms. First term T. W. F. 6, 7. *Required of Freshmen.*

2. (b) AGRONOMY—Continuation of 1 (a). T. Th. 6, 7; W. 1, 2. *Required of Freshmen.*

3. (a) SOIL PHYSICS—This course comprises a study of the origin, formation and classification of soils, soil temperature and conditions influencing it; soil moisture and the methods of conserving it; surface tension, and capillarity, as related to the soil and plant; methods of plowing, harrowing, cultivating and rolling as related to the various kinds of soil and crops; washing of soils and prevention of same; cultivation and drainage as affecting soil moisture, temperature, root development and the supply of available plant food. Three hours. M. W. F. 2. *Required of Sophomores.*

4. (b) SOILS—A laboratory course supplementary to 3 (a). A study of rocks and rock forming minerals, microscopic study of soil particles and types, organic matter; soil moisture, movement of water, capacity of types of soil for moisture; mulches in their relation to moisture; effects of temperature; mechanical analysis. Two three-hour periods. *Required of Sophomores.*

5. (a) FARM CROPS—This course embraces a study of the principal farm crops with the methods of cultivation, seeding, harvesting, storing, cleaning, selecting and testing; the principles of plant breeding, with special reference to the improvement of field crops; combating weeds, diseases and insect enemies. M. T. W. Th. F. 1. *Required of Juniors.*

6. (b) SOIL MANAGEMENT—Soil fertility and the maintenance of the same. Sources of commercial fertilizers, mixing of commercials, farm manures, fertilization of crops, green manuring, soil bacteria, rotation of crops, and the study of the effect of the different crops on the fertility of the soil, farm management with reference to the application of systems of rotations, irrigation and drainage, including a large amount of field work and drawing of plans. Three or five hours. *Elective.*

7. THESIS WORK—6 (b) prerequisite.

## AGRICULTURE.

R. J. NELSON, *Professor.*

1. (a) AGRICULTURE (first term) (3)—This course is designed to give the student a general knowledge of the different fields of agriculture. The first term will be devoted to soils and how to treat them. A brief study will be made of manures and fertilizers, their application and use. *Required of Sub-Freshmen.*

2. (b) AGRICULTURE (*second term*) (3)—A continuation of course 1. A study of field crops, corn, cotton, rice, oats, and grasses. Practical work will be given in cotton judging, grain judging, seed testing, etc. *Required of Sub-Freshmen.*

3. (a) BOOKKEEPING AND FARM ACCOUNTS (*first term*) (1)—A course of single and double-entry bookkeeping as applied to farm transactions. *Required of Sub-Freshmen.*

4. (b) RURAL LAW (*second term*) (1)—Business forms and commercial law applied to farm transactions; deeds; tenants' contracts; salvage laws; road laws; etc. *Required of Sub-Freshmen.*

5. (a) GENERAL AGRICULTURE (*first term*) (3)—A general course in agriculture designed to meet the needs of students preparing to teach elementary agriculture in the public schools of the State. A study of plants in relation to agriculture; propagation of plants by seeds and cuttings; budding and grafting; field crops; soil fertility; relation and the use of legumes. *Required of Normals.* M. W. 3; M. W. 6; M. W. 7; T. Th. 6, 7.

6. (b) SCHOOL GARDENING (*second term*) (3)—A practical course in vegetable and ornamental gardening for students preparing to teach and others interested in vegetable and ornamental gardening. *Required of Normals.* M. W. 3; T. Th. 6, 7; M. W. 7; M. W. 6.

7. FARM MECHANICS (*both terms*) (2)—Rural architecture; general arrangement and laying out farms; farm machinery; care and use and adaptation of different tools. *Elective.*

8. (a) FARM MANAGEMENT (*first term*) (2)—A study of farm operations; organization; equipment; administration; intensive and extensive systems; building; fences; roads; cost of different crops; farm records and accounts. *Required of Juniors in Agricultural courses.*

9. (b) RURAL ECONOMICS (*second term*) (2)—Factors of agricultural production; economics; principles which determine the size of the farm; methods of acquiring land; tenancy and ownership; markets; labor problems; farmers' organizations. *Required of Juniors in Agricultural Courses.*



### SPECIAL COURSE.

This course, as pointed out before, is practical in its nature, and is made up largely of work chosen from the longer course with this point in view. *Students will be admitted at the discretion of the professor in charge of classification.*

The following is an outline of the two years' course:

#### First Year.

Sixteen lectures and demonstrations on the breeding, feeding, and hygiene of farm animals, with demonstrations of breed characteristics on the college stock. By DR. DINWIDDIE and MR. SHORT.

Fourteen lectures, with demonstrations, on the care, cultivation, and pruning of orchards and the growing of small fruits and vegetables. By PROFESSOR WALKER and MR. HEWITT.

Twenty-four lectures and recitations, with an appropriate textbook, on soils and fertilizers. By PROFESSOR BRUCE.

Fourteen lectures on milk, its secretion and composition, conditions and causes influencing the quality and quantity of milk. Producing and handling of milk for market, creameries, cheese, and factories, together with laboratory work in separating, butter-making and milk testing. By PROFESSOR HOOPER and MR. TOURGEE.

Twenty-four lectures on General Entomology, the structure, life, history, habits, classification, and distribution of insects. By DR. ADAMS.

Fifteen lectures on lameness of the horse, its causes, prevention and cure; the teeth of animals and common ailments, with practical work on methods of restraint and dental surgery. By DR. LENTON.

Fourteen lectures on cereals, grasses, weed eradicators and identification, with laboratory work on the judging of cotton, corn, and the grasses. By PROFESSOR NELSON and MR. JACOBS.

#### Second Year.

Fourteen lectures and demonstrations on the breeds of live stock, stock judging, methods of feeding. DR. DINWIDDIE and MR. SHORT.



Fourteen lectures on the orchard, care and cultivation, and kindred subjects. By PROFESSOR WALKER and MR. HEWITT.

Twenty-four lectures and recitations, with an appropriate textbook on foods and feeding stuffs. By PROFESSOR BRUCE.

Fourteen lectures on the breeds of dairy cattle; the formation, breeding, feeding and management of the dairy herd; barns and soils, soiling crops, dairy farm management, with laboratory work in separating milk, butter making, and milk testing. By PROFESSOR HOOPER and MR. TOURGEE.

Twenty-four lectures on the most important, beneficial and injurious insects; methods of prevention and eradication. By DR. ADAMS.

Fifteen lectures on contagious diseases of animals in Arkansas, with laboratory work on dental and minor surgical operations. By DR. LENTON.

Fourteen lectures on soil formation and soil management; the maintenance of soil fertility and moisture and drainage, with laboratory work. By PROFESSOR NELSON and MR. JACOBS.

# AGRICULTURAL EXPERIMENT STATION

Fayetteville.

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JOHN NEWTON TILLMAN, LL. D.,

*President.*

CHARLES FREDERICK ADAMS, B. Agr., A. M., M. D.,

*Acting Director and Entomologist.*

ROBERT ROBSON DINWIDDIE, M. D., V. S.,

*Animal Husbandman and Pathologist.*

ERNEST WALKER, B. S. A.,

*Horticulturist.*

VICTOR ALBERT HOOPER,

*Dairy Husbandman.*

WILFRID LENTON, V. S.,

*Veterinarian.*

W. M. BRUCE, A. M., Ph. D.,

*Chemist.*

MARTIN NELSON, B. S. A., M. S.,

*Agriculturist.*

JOSEPH LEE HEWITT, B. S.,

*Assistant Horticulturist.*

CARL H. TOURGEE, B. S. A.,

*Assistant Dairy Husbandman.*

WILFRED S. JACOBS, B. S. A.,

*Assistant Agriculturist.*

ALBERT K. SHORT, B. S.,

*Assistant Animal Husbandman.*

H. D. YOUNG, B. S.,

*Assistant Chemist.*

J. F. STANDFORD, V. S.,

*Assistant Pathologist.*

EDITH G. BLACK,

*Executive Clerk.*

The office of the Director of the Experiment Station is in the new Agricultural Building, a brick structure of two stories and a

basement. It has a well-lighted laboratory room in the basement, four large lecture rooms on the first floor and a library and the offices of director on the second floor. It is well arranged for its purpose and will serve admirably until the growth of the college demands more room.

THE DEPARTMENT OF ANIMAL HUSBANDRY AND PATHOLOGY is located in the old Agricultural Building. This department carries on investigations in feeding, breeding and care of farm animals. Its special feature is a well-selected lot of hogs, representing the various breeds, on which various feeding and breeding tests are made.

THE DEPARTMENT OF HORTICULTURE has its offices in the old Agricultural Building and on the first floor of the Agricultural Building. It has a greenhouse, in which forcing experiments and other experiments in plant propagation are carried on. The orchards and grounds in charge of this department contain many varieties of apples, pears, plums, cherries and small fruits, which serve as material for experiments with varieties, methods of culture, pruning and spraying.

THE DEPARTMENT OF CHEMISTRY is located in the old Agricultural Building. Its laboratories are fitted with the most improved modern apparatus. This department carries on investigations along the lines of animal and plant life and soil chemistry.

THE DAIRY DEPARTMENT is located in a new three-story stone building equipped with the most improved dairy machinery and well-equipped laboratories. It also has a representative herd of dairy cows housed in a well-arranged dairy barn, and conducts a model dairy on an economic basis.

THE DEPARTMENT OF ENTOMOLOGY has its office and laboratories on the first floor of the Agricultural Building. Investigations are conducted by this department in life histories of insects injurious to agriculture and horticulture, and methods of exterminating such insects.

THE DEPARTMENT OF VETERINARY SCIENCE is located in the old Agricultural Building. State inspection for contagious diseases of animals is supervised by this department, and the best means of checking the spread of outbreaks of such diseases and stamping them out.

THE DEPARTMENT OF AGRONOMY has its office on the second floor of the Agricultural Building. This department carries on investigations with farm crops, testing and breeding new and pure varieties of cotton, corn, grains, grasses for hay, pasture and cover crops, and other agricultural products. It also carries on experiments in soil fertility and the management of soils for different crops. The work of this department is conducted on the station farm and at the substations. A special feature is the work with cotton and corn at the substations of the southern part of the State. In connection with this department is the poultry work of the station, where may be found representatives of the leading breeds of poultry.



# THE CONSERVATORY OF MUSIC AND ART

Fayetteville.

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JOHN NEWTON TILLMAN, LL. D.,

*President.*

\*HENRY DOUGHTY TOVEY, DIRECTOR,

*Piano, Organ, Theory and History of Music.*

MARY CUMMINGS BATEMAN,

*Voice.*

KATIE DEE COOKE,

*Violin.*

SUE BELLE WOOD,

*Piano.*

THEODORA MACMILLAN BLAKE,

*Piano.*

LUCILE HORTON,

*Superintendent of Practice.*

WILLIE VANDEVENTER CROCKETT, ✓

*Elocution.\**

ELIZABETH GALBRAITH,

*Art.*

MARTHA H. WHITE, ✓

*Physical Culture.*

FRANK BARR,

*Band Instruments.*

## PURPOSE.

The fundamental idea of the management has been to make the Conservatory of Music and Art complete and thorough in every respect, and to advance the pupils rapidly, yet carefully. In other words, the standard of efficiency must be so high that a certificate of study and ability granted here will possess a value recognized far and wide, and that pupils will choose to study here in preference to going to the great cities.

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\*In the Bulletin for June, 1908, it was stated that Mr. Tovey had been Director of the Conservatory of Ouachita College. This was an error. Professor W. L. Thickstun was then and is now at the head of that conservatory.

## TUITION.

## One Term (18 Weeks) 2 Lessons Per Week.

Piano or Organ (with Mr. Tovey).....	\$27 50
Piano (with assistant).....	22 50
Voice, Violin or Band Instruments.....	22 50
Harmony (in class).....	5 00
Musical History (in class).....	5 00
Organ Practice (per hour).....	20
Use of Piano for practice, one hour daily:	
First hour.....	2 50
Each additional hour.....	1 25

If a pupil practices only a week or two, the charge will be five cents per hour.

All students are required to matriculate with the Secretary of the University. The music and art students will pay the regular matriculation fee of ten dollars in addition to their tuition.

The tuition is based upon a term of eighteen weeks, except when otherwise stated, and these rates do not apply for a less period. *Tuition must be paid at the beginning of the term and receipt presented before taking lessons.*

## RULES AND REGULATIONS.

All arrangements must be made at the Director's office (University Hall, room 26). The tuition is paid strictly in advance. If it is paid later, a higher rate is charged. Pupils may enter at any time, but will not be accepted for less than one term of eighteen weeks.

Pupils wishing to take the regular advanced courses for a certificate or diploma must enter the department not later than the opening of the second term and continue without interruption until the close of the school year.

Lessons lost in consequence of the absence of the pupil will not be made good by the University, except in case of protracted illness, when due notice in writing has been given to the Director.

All lessons lost in consequence of the absence of the instructor will be made good.

No pupil is allowed to miss lessons without sufficient cause.

Upon leaving, each pupil may receive a testimonial in which the time spent at the institution, diligence in study, and progress will be faithfully stated.

Reports showing attendance and improvement are issued every month.

Pupils are not allowed to take part in any public entertainment without the knowledge and consent of the Director.

No money will be refunded on class lessons.

For further information address the Director.

### **SPECIAL ADVANTAGES OF CONSERVATORY INSTRUCTION.**

Aside from the opportunity of instruction by teachers of recognized ability, the advantages of conservatory over private instruction are so manifest that we deem it hardly necessary to enumerate the many points in its favor.

It is almost impossible for the private teacher to give the required attention to the different theoretical branches, such as harmony, counterpoint, composition, ear training, etc., which are absolutely essential to a thorough musical training; at the same time, the lectures on musical history, the public recitals, as well as the close association with a large number of earnest students, create a certain musical atmosphere which is a great aid and stimulus to an increased effort on the part of the pupils. Students are required to attend lessons regularly; teachers have no business matters to occupy their time, and can concentrate their full attention on the musical education of their pupils.

### **RECITALS.**

Especial attention is called to the recitals of both pupils and faculty, of which a number are given each year, and which have won a reputation for artistic excellence. The advantage derived from these can not be overestimated.

At the pupils' recitals, all pupils are privileged and expected to appear as their talents and advancement may warrant. Not only does this offer them a greater incentive to put forth their best efforts, but it helps them to overcome the nervousness which often mars the performance of students who have not the opportunity of performing frequently before an audience. The recitals given by the members of the faculty have attracted especial attention, and needless to say, are a further aid to pupils.

## ORCHESTRA.

Students of the violin and other orchestral instruments will, as soon as possible, be admitted to membership in the University orchestra, which takes part in concerts. This practice is a decided advantage, as well as a source of pleasure to the student. Orchestral and chorus practice is free to students of the University.

## PIANO.

MR. TOVEY, MISS BLAKE, MISS WOOD, MISS COOKE.

**COURSE OF INSTRUCTION**—It has not been deemed advisable to adopt any set of studies to be used arbitrarily, but rather to select a course to suit the needs of the individual pupil. A general outline of the plan of study will be given. Exercises without notes are used for the purpose of acquiring control over positions and motions, firmness, pliability and elasticity. The aim is to develop the student's power of musical conception, to gain control over all technical resources; and finally, to adapt these resources to artistic ends.

**PREPARATORY GRADE**—National Graded Course Books I and II; simple exercises for wrist development, major scales, broken chords and arpeggios. Sonatinas by Diabelli, Clementi, Kuhlau, Lichner; studies from Koehler, Biehl, Loeschorn, Czerny, Gurlitt; salon pieces; preparatory octave work. Special care will be taken in this elementary instruction, as herein lies the foundation of the future pianist.

Pupils passing from the Preparatory to the Intermediate Grade must first pass a written examination in the rudiments of music and be able to play the major scales at the metronome mark 120, 4 notes to a beat.

**INTERMEDIATE GRADE**—Selected technics from Tausig, Krauss, Heller, Loeschorn, Op. 66; Czerny, Op. 299; sonatas by Mozart, Haydn, Beethoven, Mendelssohn's songs without words; Smith's and Low's Octave Studies; duets for piano and piano and violin; Bach's Little Preludes and Fugues.

In passing from the Intermediate to the Advanced Grade, pupils must be able to play major and minor scales, similar and contrary motion at 144—4 notes to a beat. Arpeggios, major and minor, at 120—4 notes to the beat; Octaves, at 80—4 notes to the beat.



ADVANCED GRADE—Extended scales in various accents; diminished and dominant seventh arpeggios; Etudes from Czerney, Op. 740; Heller, Op. 45; Cramer; Clementi Gradus ad Parnassum; Kullak Octave Studies; Bach Suites, Preludes and Fugues; Chopin, Op. 10 and 25; Valses, Nocturnes, Polonaises, Preludes; Beethoven Sonatas; pieces by Mendelssohn, Schumann, Schubert, Liszt, Grieg, MacDowell and other composers, classic and modern.

Pupils of advanced grade who have obtained the required proficiency may be considered candidates for the diploma granted by the department, and will be ranked as Seniors.

### Piano Practice.

Pupils can arrange at a very moderate expense to do their daily practicing at the University, in case this should prove desirable.

### PIPE ORGAN.

MR. TOVEY.

The aim of this department is to fit pupils for holding church positions. To any one expecting to make music a profession, the knowledge of organ-playing will be found especially helpful.

The preliminary organ work is based on Ritter's Organ School and Thayer's Pedal Studies. Then follow Buck's Study in Pedal Phrasing, Bach's Little Preludes and Fugues and selections from the best composers for organ, such as Guilmant, Lemare, Tours, Hollins, Rheinberger and others.

The new Moline organ at the St. Paul's Episcopal church is used.

### VIOLIN.

MISS COOKE.

The violin is by many considered the most difficult of instruments, and requires careful and conscientious study. Much depends on the beginning. Often a pupil begins to study with an inexperienced teacher, or one who does not concentrate his attention on this difficult instrument, and consequently falls into bad habits of position, bowing, or technique, that make advancement difficult, and are in many cases almost impossible to overcome. The pupil is taken from the beginning and carefully brought through the most difficult phases of the violin. In addition to his

exercises, he is, as soon as possible, given pieces within his capacity.

The course of study includes the following:

FIRST AND SECOND GRADES—Studies by Schubert and DeBeriot; diatonic scales; Blumenstengel and Dont; solos in the first and second positions.

THIRD AND FOURTH GRADES—Kayser and Kreutzer studies; diatonic and chromatic scales in all positions; bowing studies; Concertos of Accolay, Viotti, Rode.

FIFTH AND SIXTH GRADES—Kreutzer, Dont and Rode studies; DeBeriot, Spohr and Mendelssohn Concertos; Beethoven and Handel Sonatas.

### VOICE.

MRS. BATEMAN.

In this branch special stress is laid on the control of the breath, accuracy of tone, and distinct articulation; next, the development of mind, body and voice, coöperatively. There is study of intervals, scale building and sight reading. As early as practicable the student is trained in phrasing. The exercises used are those best adapted to the needs of the pupil. Songs of the best American, English, German, French and Italian composers are used according to the progress of the pupil. There is study of opera and oratorio.

### HARMONY (Four Terms).

MR. TOVEY.

FIRST TERM—Keys, scales and signatures; intervals; formation of triad; chord connection; simple part writing; chords of the seventh and their inversions; altered and augmented chords.

SECOND TERM—Modulation.

THIRD TERM—Modulation continued; suspensions; passing chords; unharmonic notes; organ point; harmonizing melodies.

FOURTH TERM—Keyboard work; playing from figured basses; double chants and chorals. *Text-books:* Stephen A. Emery's Harmony; Kreb's Manual of Modulation.

### SIGHT READING.

All music pupils will be given practice in sight reading, which will be a great aid in their work.

**TEACHER'S COURSE.**

MR. TOVEY.

Those desiring to become teachers will be given special preparation when they are sufficiently advanced in their branches.

**MUSICAL HISTORY (Two Terms).**

MR. TOVEY.

FIRST TERM—General history, development and influence of music among ancient peoples. Early Christian music. Polyphonic music. Rise of dramatic and instrumental music. Development of the different musical instruments.

SECOND TERM—Development of the opera and the oratorio. The romanticists. Modern music and musicians. *Text-book:* W. S. B. Matthew's History of Music.

Mr. Tovey also offers a course in post-graduate work, and a course in accompaniment.

**BAND INSTRUMENTS.**

MR. BARR.

Students of band instruments may, as soon as practicable, be admitted to membership in the University Band, which is under the direction of Mr. Barr, an experienced bandmaster.

**CERTIFICATES.**

In replying to the many inquiries regarding the period of study required for graduation, it must be said that it is difficult to answer this question, as all depends upon the ability and application of the student. Some will accomplish in one year what it takes others two or three times as long to complete. The term varies from four to six years. A graduate must be able to give acceptably a recital in the chosen branch, besides passing examinations in Harmony and in History of Music. Diplomas are conferred upon graduates. On request, certificates are issued to those finishing a portion of the course. As the standard set in this department is that required by the best conservatories of the

country, a certificate obtained under these conditions has a meaning. A fee of five dollars is charged for the diploma granted by the Department of Music of the University of Arkansas.

THE REQUIREMENTS FOR A DIPLOMA IN THE DEPARTMENT OF MUSIC are such as are outlined for the course in Music, English, Modern Languages, History or Economics. No definite number of hours in music are required, but the applicant will be entitled to a diploma whenever the Director is satisfied that the applicant possesses sufficient knowledge, technique and ability and has completed the theoretical course, regardless of the time required for its completion.

The course as required is as follows:

Two years' College English.

Two years' Modern Language.

One year History 2, or Economics 1 (optional).

Two years' Harmony.

One year Musical History.

The entrance requirements for English, Modern Language, History and Economics are same as for the same studies in any other course.

Only in exceptional cases will a student be allowed to graduate after but one year in the Conservatory of Music of the University of Arkansas, and that only when the previous training has been of the best and the pupil shows natural ability of high order.



Some programs given by the Department of Music, 1908-1909:

## TWO-PIANO RECITAL

GIVEN BY THE PUPILS OF

MR. HENRY DOUGHTY TOVEY

ASSISTED BY PUPILS OF

MRS. MARY CUMMINGS BATEMAN

MRS. WILLIE VANDEVENTER-CROCKETT

AND

MR. RALPH LYNCH, Violinist.

December 11, 8 P. M.

### PROGRAM

- Quartette—From "Peer Gynt".....*Grieg*  
     Morning.  
     In the Hall of the Mountain King.  
     Charlotte Kilpatrick, Nelle Trimble, Louise Williams, Hazel Eno.  
 Two Spanish Dances.....*Moszkowski*  
     Margaret Stuckey.  
 Songs—A Little Thief.....*Stern*  
     A Memory.....*Park*  
     Kathleen Tillman.  
 Paraphrase on a Chopin Waltz.....*Schuett*  
     Lucille Horton.  
 Song—A Song of Thanksgiving.....*Allitsen*  
     Susie Moore.  
 Evening.....*Chaminade*  
 Morning.....*Chaminade*  
     Genevieve Mock.  
 Humoreske.....*Dvorak*  
     Ralph Lynch.  
 Romance and Variations.....*Grieg*  
     Delbert Norton.  
 For All Eternity.....*Mascheroni*  
     Lexie Bell.  
     Violin Obligato, Miss Cooke.  
 Reading—Bill, the Lokil Editor.....*Eugene Field*  
     Ellen Harrison.  
 Two Dances.....*Debussy*  
     Sacred Dance.  
     Profane Dance.  
 Pas des Cymbals.....*Chaminade*  
     Ruth Barrett.  
 Songs—Spinning.....*Cowen*  
     Love's Dilemma.....*Richardson*  
     Roberta Kilpatrick.  
 Quartette—Waltz in A-Flat.....*Moszkowski*  
     Aileen Spencer, Virginia Hall, Maud Bryan, Alice Collins.

ACCOMPANIST, CLAUDIA WOOD.

SECOND PIANO, HENRY DOUGHTY TOVEY.

## HENRY DOUGHTY TOVEY

Pianist

## EDWIN CLAIR TOVEY

Baritone

## IN RECITAL

## PROGRAM

Sonata Tragica.....	MacDowell (1861-1908)
Largo maestoso—Allegro risoluto.	
Molto allegro, vivace.	
Allegro eroico.	
I'll Sing Thee Songs of Araby.....	Clay
Thine Eyes.....	Lassen
Still As the Night.....	Bohm
Serenade.....	Jensen
The Slave.....	Lalo
From "Peer Gynt".....	Grieg (1845-1907)
Morning.	
Ase's Death.	
Solveig's Song.	
At Thy Feet.....	Grieg
Wedding Anniversary at Trolldhaugen.....	Grieg
Two Songs of the Hill.....	Ronald
Away on the Hill.	
A Little Winding Road.	
A Barque at Midnight.....	Lambert
Ojira to Her Lover.....	Woodford-Finden
Prelude.....	Alkan
Intermezzo (Pagliacci).....	Leoncavallo
Arabesque.....	Debussy
Nautilus.....	MacDowell
Spanish Caprice.....	Moszkowski
She Rested by the Broken Brook.....	Coleridge-Taylor
A Love Note.....	Tovey
The Birthday.....	Cowen

## PIPE ORGAN RECITAL

GIVEN BY

HENRY DOUGHTY TOVEY

ASSISTED BY

Willie Vandeventer-Crockett,	-	-	-	Reader
Edwin Clair Tovey,	-	-	-	Baritone

THURSDAY, OCTOBER 29, 1908, 8 P. M.

## PROGRAM

- Prelude (Ben Hur).....*Kelley*  
 Romance and Traumeri.....*Schumann*  
 Gavotte (Mignon).....*Thomas*  
 Prayer and Cradle Song.....*Guilmant*  
 Old Melody.....*Arr. by H. D. T.*  
 Benediction Nuptiale.....*Saint-Saens*  
 Oh, Jesus, Thou Art Standing.....*Owens*  
     Edwin Clair Tovey.  
     *a. Baby Bell.....Thomas Baily Aldrich*  
     *b. Little Christel.....Mary F. Bradley*  
     Mrs. Crockett.  
 Elegy.....*Massenet*  
 Erotik.....*Grieg*  
 To A Wild Rose.....*MacDowell*  
 At An Old Trysting Place.....*MacDowell*  
 Melody in G.....*Guilmant*  
 Intermezzo.....*Hollins*  
 March.....*Guilmant*

## CONCERT

GIVEN BY

MISS KATIE DEE COOKE, Violinist

MRS. JOSEPH LEE HEWITT, Cellist

MR. EDWIN CLAIR TOVEY, Baritone

MR. HENRY DOUGHTY TOVEY, Pianist

February 5, 1909

## FROM THE WORKS OF EDVARD GRIEG

(1845-1907.)

## SONATA FOR 'CELLO AND PIANO. Op. 36.

Allegro agitato.

Andante molto tranquillo.

Allegro.

## THREE SONGS.

Magarethlein.

Im Kahne.

Zur Johannisnacht.

## CONCERTO FOR PIANO IN A MINOR.

Allegro molto moderato.

Adagio.

Allegro moderato molto e marcato.

## THREE SONGS.

The Swan.

Solveig's Cradle Song. ("Peer Gynt.")

Autumnal Gale.

## SONATA FOR VIOLIN AND PIANO. Op. 13.

Lento doloroso—Allegro vivace.

Allegretto tranquillo.

Allegro animato.



SELECTIONS FROM MR. TOVEY'S REPERTOIRE.

CONCERTOS—

- Concerto in A minor, Grieg.
- Concerto in D minor, Rubinstein.
- Concerto in D minor, MacDowell.
- Concerto in G minor, Schuett.
- Concerto in G minor, Saint-Saens.
- Concerto in G major, Tschaikowsky.
- Concerto, Hiller.

BEETHOVEN—

- German Dances.
- Sonatas.

GRIEG—

- Sonata in G minor.
- Sonata for piano and violin in G.
- Sonata for piano and violin in C minor.
- Sonata for piano and violin in F.
- Sonata for cello and piano.

ALKAN—

- Prelude.

ALPHERAKY—

- Serenade levantine.

ARENSKY—

- Bigarrure.
- Trio for piano and cello.

BACKER-GRONDAHL—

- Summer Song.

BEACH—

- Serenade (Richard Strauss).

BENDEL—

- Moonlight.

BIZET-BUONAMICI—

- April.

BRAHMS—

- Intermezzi.

BRAHMS-BENDEL—

- Improvisation on the Lullaby.

CAESAR FRANCK—

- Sonata for piano and violin.

CARRENO—

- Waltz.

CERVANTES—

- Spanish Dances.

CHAMINADE—

- Autumn.
- Ritournelle.

CHOPIN-FERRATA—

- Waltz.

CHOPIN—

- Ballade in A flat.
- Ballade in G minor.
- Etudes.
- Mazurkas.
- Nocturnes.
- Polonaises.
- Preludes.

## COLERIDGE-TAYLOR—

- Four Negro Melodies.
- Moorish Tone Picture.
- Two Humereskes.

## DEBUSSY—

- Two Arabesques.

## DUBOIS—

- Rigandou.

## DUSSEK—

- Sonata.

## DVORAK—

- Humereske.
- On the Holy Mount.

## ELGAR—

- Salut d'Amour.

## GODARD—

- Cavalier Fantastic.
- En Route.
- Pan's Flute.
- Shepherd and Shepherdess.

## GRIEG—

- Ase's Death.
- Ballade in G minor.
- Berceuse.
- Butterfly.
- Elegiac Melody.
- Erotik.
- Four Tone Pictures.
- Fourteen Lyric Pieces.
- Gnomenzug.
- Holberg Suite.
- I Love Thee.
- Impressions (6).
- Minuet.
- Morning.
- Norwegian Bridal Procession.
- Solveig's Song.
- Slumber Song.

## GRIEG—Continued.

- Spring Song.
- The Princess.
- Three Humereskes.
- Two Improvisita.
- Two Norwegian Dances.
- Wedding Day.

## HABERBIER—

- Etude.

## HENSELT—

- Ave Maria.
- Spring Song.
- Were I a Bird.

## HOLLANDER—

- Canzonetta.
- Left-Hand Pieces.
- March.

## HUSS—

- Etude for Right Hand Alone.

## ILYNSKI—

- Berceuse.

## JENSEN—

- Murmuring Zephyrs.

## KLEIN—

- Secret of Love.

## KRAYZANOWSKI—

- Nocturne.

## LAVALLE—

- Butterfly.

## LEONCAVALLO—

- Intermezzo (Pagliacci).

## LESCHETIZKY—

- Arabesque.
- Etude (Chopin).
- Intermezzo.
- Mazurka.
- Sextette from Lucia  
(for left hand alone).

LISZT—

Berceuse (Gounod).  
 Du bist die Ruh (Schubert).  
 Eglogue.  
 Elsa's Bridal Procession  
 (Wagner).  
 Elsa's Dream (Wagner).  
 Faust Waltz (Gounod).  
 Gnomenreigen.  
 Hark, Hark the Lark  
 (Schubert).  
 Liebestraum.  
 Lohengrin's Reproof  
 (Wagner).  
 Maiden's Wish (Chopin).  
 March to the Sea.  
 Polonaise in E.  
 Rhapsodie No. 6.  
 Rigoletto Paraphrase (Verdi)  
 Serenade (Schubert).  
 Spinning Song From the Fly-  
 ing Dutchman (Wagner).  
 Spring (Schubert).  
 Spring Night (Schumann).  
 Tannhäuser March.  
 The Nightingale (Alabieff).  
 Waldesrauschen.  
 Widmung (Schumann).

MACDOWELL—

A Deserted Farm.  
 A Tale.  
 An Old Garden.  
 At an Old Trysting Place.  
 Berceuse.  
 By a Meadow Brook.  
 Eroica Sonata.  
 From a Wandering Iceberg.  
 Humereske.  
 Hunting Song.  
 Idyl in A.

MACDOWELL—Continued.

Idyl in B flat.  
 In Autumn.  
 In Deep Woods.  
 Indian Idyl.  
 Indian Lodge.  
 March.  
 Mid-Summer.  
 Moonlight.  
 Norse Sonata.  
 Prelude and Fugue in D  
 Minor.  
 Scotch Poem.  
 Shadow Dance.  
 Six Poems from Heine.  
 Song.  
 The Eagle.  
 To a Water Lily.  
 To a Wild Rose.  
 Tragic Sonata.  
 Winter.  
 Witches' Dance.

MASON—

At the Spring.

MASSANET—

Melody.

MOSKOWSKI—

Cradle Song.  
 Habenera.  
 In Autumn.  
 Moment Giogoso.  
 Moment Musicale.  
 Serenade.  
 Spanish Caprice.

NICODE—

Tarantelle.

NOLLETT—

Elegy.

OLSEN—

Serenade.

## PADEREWSKI—

Chant de Voyager.  
 Krakowiak.  
 Love Song.  
 Minuet.  
 Scarlatti Caprice.

## POLDINI—

Doll's Waltz.  
 March Mignonne.

## RACHMANINOFF—

Polichinelle.  
 Prelude.

## RAFF—

Etude Melodique.  
 Lorelei.  
 Spinning Song.

## RUBINSTEIN—

Barcarolle in F minor.  
 Barcarolle in G.  
 Barcarolle in G minor.  
 Etude on False Notes.  
 Impromptu.  
 Kamennoi-Ostrow.  
 Nocturne.  
 Romance.  
 Staccato Etude.

## SAINT SAENS—

Kermesse (Faust).  
 Romance.

## SARAN—

Fantasie.

## SAUER—

Galop.

## SCHUBERT-TAUSIG—

Military March.

## SCHUETT—

Carnaval Mignon.  
 Canzonetta.

## SCHUETT—Continued.

Caprice.  
 Gavotte.  
 Paraphrase on Lullaby by  
     Brahms.  
 Valse Lente.  
 Waltz.

## SCHUMANN—

Arabesque.  
 Bird as Prophet.  
 Canon.  
 Epilogue.  
 Nocturne.  
 Novelette in F.  
 Novelette in F sharp minor.  
 Romance.  
 Scherzino.  
 Soaring.  
 Sonata in G minor.  
 Symphonic Etudes.

## SEEBOECK—

Frog Pond.  
 Minuet.

## SINDING—

March Grotesque.  
 Rustle of Spring.

## SODERMAN—

Swedish Wedding March.

## STOJOWSKI—

Gondoliera.  
 Serenade.

## STRAUSS, RICHARD—

By a Wood Path.  
 Cello Sonata.  
 Enoch Arden Incidental  
     Music.  
 Traumeri.

## STRAUSS-SCHULZ-EVLER—

Blue Danube Waltzes.



TSCHAIKOWSKY—

Berceuse.  
Humoreske.  
Invitation to a Trepak.  
June.  
Romance.  
Troika.

WAGNER—

Album Leaf.  
Prize Song (Bendel).

WESTERHOUT—  
Canzonetta.

WIENIAWSKI—  
Waltz.

FOR TWO PIANOS.

ARENSKY—

Silhouettes.

CHABRIER—

Spanish Rhapsody.

CHAMINADE—

Andante and Scherzetto.  
At Evening.  
At Morning.  
La Sevillane.  
Pasdes Cymbals.  
Serenade.

CUI—

Marche Solemnelle.

DEBUSSEY—

Profane Dance.  
Sacred Dance.

DVORAK—

Slavonic Dance.

GERMAN—

Three Dances from Henry VIII.

GODARD—

Duo Symphonique.

GRIEG—

Romance and Variations.

HOLLANDER—

Theme and Variations.

JENSEN—

Wedding Music.

MOZART—

Two Minuets.

## MOZART-GRIEG.

- Sonata in C major.
- Sonata in C minor.
- Sonata in F major.
- Sonata in G.

## RAFF—

- Gavotte and Musette.

## SAINT-SAENS—

- Dance Macabre.
- March Heroique.
- Suite Algerienne.
- Variations on a Beethoven Theme.

## SCHUETT—

- Impromptu.
- Paraphrase on the Chopin Waltz, Op. 64, No. 1.

## SCHUMANN—

- Andante and Variations.

## SCHYTTÉ—

- Festival March.

## SINDING—

- Allegro.
- Andante.

## LIST OF VOCAL MUSIC USED.

MRS. BATEMAN.

## PREPARATORY GRADES—

- Marchesi's Individual Exercises.
- Panofka's Vocalises; op. 85.
- Studies for sight reading and easy songs.

## INTERMEDIATE GRADES—

- Concone, Op. 12.
- Concone's Lessons, Op. 17, and third and fourth grade songs, including oratorio.
- Marchesi's Individual Exercises.
- Panofka's Vocalises, Op. 81.
- Sieber's Vocalises, Op. 94.

## ADVANCED GRADES—

- Lamperti's Studies in Bravura.
- Oratorio and operatic arias and difficult songs in English, French, German and Italian.

## ELOCUTION.

WILLIE VANDEVENTER CROCKETT, *Instructor.*

1. The work comprehends all that relates to the study and the teaching of the fine art of public reading, the understanding of the relation of art to life; the study of the interpretative forms of literature and the careful training of all the faculties and agents necessary to the artistic translation of these forms back to life. The process of instruction founded upon recognized principles of art and life is revelatory and self-discovering, rather than arbitrary and academic.

The imagination is cultivated, the emotional nature is developed and controlled, and the will is strengthened by learning to follow a train of thought. The effects are naturalness, directness and repose.

2. Daily training in vocal expression, philosophy of expression, psychology of expressive movement (gesture), impersonation, public reading, oratory, drama, rendering of Shakesperian texts and caricature, study of literary masterpieces for interpretation, training of the speaking voice, the voice treated as an instrument. The object of the training is to free and develop this instrument and render it obedient and responsive to thought and emotion.

Lectures on the physiology and hygiene of the voice, and the relation of the vital organs to the vocal; the fundamental principles of voice production and its relations to the nervous system; deep and rhythmic breathing; placing of tones; projection of tones; development of resonance, flexibility, freedom, smoothness, purity, power and brilliancy of tone; voice as an interpreter of mental states and its relation to imagination and feeling; overcoming individual defects in vocal organs; clear articulation and perfect enunciation.

3. ORATORY—A study and delivery of some of the great orations and the methods adopted by the leading orators; Bible and hymn reading; practice in the laws that govern universal art as applied to oratory and original speeches.

4. The chief aim of the work is to awaken the student; to free him from constrained, limited and erroneous habits of thought, action and voice; to open his avenues of impression; to quicken his imagination and to give him knowledge and control of his agents of expression; to lead the student into a knowledge and understanding of the interpretative forms of literature, the

poem, the story, the oration, the caricature, the play; to develop his emotional response to his thought and to train him to control his emotions by his artistic judgment.

1906  
1907  
1908

All normal students in the University are required to have a year at least, in elocution and in physical culture. The work in elocution is given with a double purpose: First, to assist the teacher to teach reading; second, to help the teacher to improve his own reading. The importance of this work can not be overestimated. A successful teacher of reading must appreciate the meaning and beauty of literature. A student, to accomplish the best in his school life, should cultivate the power of genuine thought-getting. The work of dramatic art consists of the study and presentation of plays of high standing, not only for their entertaining, but educational qualities as well. It is absolutely certain that students who undertake the masterpieces of dramatic literature in theatrical productions learn more of the literature of the drama in their dramatic performance of plays than they can learn of such things in any other possible way, because of the mode of getting at the truth, the life, the spirit and meaning of the play in its actual performance. Through the performance of a Shakesperian play, the pupils acquire a better knowledge of Shakespeare, a greater appreciation of his language and art than they could possibly learn in any other way.

During the past three years the class in dramatic art, known as the "University Dramatic Club," has presented creditable performances of Shakespeare's "Twelfth Night," "The Taming of the Shrew," and Israel Zangwill's "Merely Mary Ann," etc.

Text-books used are Townsend Southwick's Elocution and Action, Steps to Oratory, Genevieve Stebbins-Astley's Physical Culture, Studies of Literary Masterpieces, Shakespeare's plays.

## PHYSICAL CULTURE.

MARTHA H. WHITE, *Instructor.*

I. GYMNASISTICS—The aim of this work is to develop the body symmetrically, and to produce a normal condition as a basis for health and grace.

Work with gymnasium apparatus; drill with wands, dumb bells, bars, Indian clubs, "setting-up exercises," marches and fancy steps; gymnasium games, including basket ball; exercises



adapted to overcome individual defects; rhythmic drills given to break lines of limitation and awkward appearance in the body.

The Delsarte system of physical culture and other systems, as the Swedish and the Ralston, are used as the individual needs of the pupils require.

2. **GESTURE**—The principles of Delsarte are used. The mind is developed to think intelligently on a subject, thereby causing the body to respond properly as an aid to this expression. Right concepts are inculcated and proper physical drill is given to develop the whole body harmoniously. The aim sought in gesture and bodily expression is truthfulness, completeness, unity, and intensity of expression with individuality and originality.

The pupils are taught to analyze all gestural movements, and to detect any false movement and the psychological state that caused it. By this method, after the pupil is trained, false bodily expression in rendering is as impossible as false sound in vocal expression.

3. **LECTURES**—These are given on etiquette, morals, manners, laws of hygiene, hygienic dress, æsthetic and artistic culture as revealed by nature and art, and the relationship of nature and art.

## ART.

ELIZABETH GALBRAITH, *Instructor.*

Two courses of instruction are offered in this department. A short course of one year is designed for the needs of normal students wishing to teach drawing and color work in the public schools. Its aim is to make skillful workers in free hand and mechanical drawing, and good teachers of these subjects. The time has come when the regular teacher must know how to draw to do the best teaching, and all normal students will be required to take instruction in drawing before graduation. The use of the Prang Text-Books is taught. Through this series there is a definite, logical progression, fitting students for teaching in the city schools.

Another course aims first at a mastery of the fundamental principles of art and the application of these principles in production. With this end in view the work is divided into a four years' course, as follows:

**FIRST YEAR**—Simple free-hand perspective with light and shade, drawing of familiar objects and from casts in charcoal and water colors. Composition.

SECOND YEAR—Drawing from casts, sketching from life, still-life painting in oil and water colors. Composition. History of art.

THIRD YEAR—Drawing from life, painting from life in oil, water color and pastel, sketching from nature. Composition. History of art.

FOURTH YEAR—This year's work is practically the same as the third year, more independence being required.

Students are required throughout the course to bring up one original composition each week and to sketch from pose three hours a week.

No degree is granted in this department, but a diploma will be given on the completion of the following course:

FRESHMAN—

English, three hours.

Foreign Language, three or four hours.

Biology, three hours.

History, two hours.

Art, four hours.

SOPHOMORE—

English, three hours.

Foreign Language, three hours.

Economics, two hours.

Biology, three hours.

Art, four hours.

Art History, one hour.

JUNIOR—

English, two hours.

Psychology, three hours.

Economics, two hours.

Elective, three hours.

Art, five hours.

Art History, one hour.

SENIOR—

Ethics, three hours.

Elective, five hours.

English, two hours.

Art, five hours.

Art History, one hour.

FROM THE MUSICAL COURIER, NEW YORK CITY,  
DECEMBER 16, 1908.

"The curriculum of the Department of Music in the University of Arkansas is very thorough and modern, and is worthy of the University with which it is connected. From an inspection of the musical numbers given by the students at their recitals, and a scrutiny of the general work performed by them, it is evident that the University of Arkansas has an excellent Department of Music."

# THE PREPARATORY SCHOOL

Fayetteville.

---

JOHN NEWTON TILLMAN, LL. D.,

*President.*

WILLIAM ALLEN RAMSEY, A. M., PRINCIPAL,

*Instructor in Mathematics.*

NAOMI JOSEPHINE WILLIAMS, M. A.,

*Instructor in Latin and History.*

MARY ANNE DAVIS,

*Instructor in English and History.*

ROBERT EDWARD PHILBECK, B. A.,

*Instructor in Mathematics.*

ELIZABETH WALKER JORDAN, B. S.,

*Instructor in English.*

ROWENA McCORD GALLOWAY, B. A.,

*Instructor in English and Latin.*

SIDNEY ARCHER ROWLAND, JR., B. A.,

*Instructor in Mathematics.*

SAMUEL W. MOORE, B. S.,

*Instructor in English and History.*

ANDREW JACKSON THOMAS,

*Instructor in Mathematics.*

MARY GARNETT HARGIS,

*Instructor in English and History.*

ERWIN HENRY SHINN,

*Instructor in Mathematics.*

JOHN POWELL WOODS,

*Instructor in Latin.*

NOTE.—Students entering after the session has begun will be examined also in the work passed over by their class. Students who hold first grade teachers' licenses, and who have had experience in teaching, will be admitted without examination to the second year class in the subjects covered by the licenses. Other grades of teachers' licenses and certificates of work done in other schools will be recognized to some extent in classifying students. A student should always bring with him all report cards and certificates of school work.

Instruction in German, civics, physics, pedagogy, woodworking, forging, drawing, agriculture, art and music is given by collegiate instructors.

As the name implies, this school is maintained for the purpose of preparing students for admission to the Freshman class in any course in the University. With this purpose in view, the



courses have been arranged, and instruction is given accordingly. While, incidentally, it serves to furnish secondary training to many who have poor or no high-school advantages at home, and who do not wish to pursue a collegiate course, still no special course is arranged for them. The course preparatory to the University normal course also prepares for teaching in the public schools of this State, and the professor of that department offers a special short course for teachers who do not desire to take the full normal course. Most of this work is done in the Preparatory School, as is all the work of the first year in the L. I. course.

Up to and including the session of 1908-09, the school has given a two years' course, but at the end of this session the first year class will be discontinued.

Students seeking to enter the Preparatory School should be thoroughly prepared for examination in the subjects required for admission.

#### REQUIREMENTS FOR ADMISSION TO THE PREPARATORY DEPARTMENT.

Students desiring to enter the department will be examined upon the following:

1. ARITHMETIC—A thorough and accurate knowledge of the whole of common school arithmetic.

2. ALGEBRA—Milne's Standard Algebra, or equivalent; algebra through quadratic equations.

3. ENGLISH—English grammar complete, and elementary composition; also, in English literature on the following works or their equivalent: Irving's Life of Goldsmith; Addison's Sir Roger de Coverley; Lowell's Vision of Sir Launfal; Coleridge's Ancient Mariner; Macauley's Life of Johnson; Burke's Speech on Conciliation.

4. HISTORY—An advanced United States history, studied with special reference to growth and development.

5. GEOGRAPHY—The whole of some complete manual of geography.

6. SPELLING AND WRITING—Proficiency in these subjects is tested by the examination papers.

7. LATIN—Latin grammar; translation of Latin into English and English into Latin (covering two years' work).

8. OTHER FOREIGN LANGUAGES—First year's work.

9. HISTORY OF ENGLAND—Montgomery's, or equivalent.

10. Any elective work mentioned in the list of entrance credits on page 40, and not included in the above list.

The first six are required, absolutely, and are valued at four high school units. In addition, the applicant desiring to take Preparatory Latin, Greek, German or French, will take No. 7, or, if he desires an engineering or scientific course, he may substitute part or all of 8, 9, and 10.

The unit values of the above subjects are as follows: Algebra, one and one-half units; English, two units; United States History, one-half unit; Latin, two units; Civics, one-half unit; Physiology, one-half unit; English History, one unit.

### **EXAMINATIONS AT PLACES OTHER THAN FAYETTEVILLE.**

Students living at a distance from the University may obtain local examinations if applied for in due time before the beginning of each session. The questions will be sent on application to the principal of any school or to any county examiner. The questions must be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his endorsement that the examination was properly conducted.

### **COURSES OF STUDY IN THE PREPARATORY SCHOOL.**

The Preparatory School consists of one sub-college class, and students are required to complete sixteen hours' work as a condition of promotion to the University Freshman class. A student, having completed the prescribed preparatory work in any subject, may be admitted to the Freshman class therein, provided no preparatory study is omitted for this purpose.

Special courses of study are discouraged in the Preparatory School, but students known to be in poor health or having physical defects which interfere with their studies, may be permitted by the faculty to defer one or more subjects and extend the course over a longer period.

The classification of preparatory students is governed by the rule stated under "Classification of Students" (page 52). Studies in lower classes have precedence of higher ones. Students can

not, therefore, omit studies in the Preparatory School and take up collegiate courses, except in such cases as may be allowed by the faculty under paragraph 3, page 53.

The completion of eleven and one-half units (including the entrance or examination credits, previously mentioned) of the following work is required for admission to the Freshman class.

PREPARATORY STUDIES.	Hours per Week.	Unit Value.
Required, $3\frac{1}{2}$ Units.		
Algebra .....	2	$\frac{1}{2}$
English .....	4	1
History of Greece and Rome.....	3	1
Elective, to complete $11\frac{1}{2}$ units.		
Latin .....	4	1
Greek .....	4	1
French .....	3	1
German .....	3	1
Physics .....	2	1
Physiology .....	2	$\frac{1}{2}$
Civics .....	2	$\frac{1}{2}$
Agriculture .....	4	1
Wood and Forge Work .....	3	1
Pedagogy .....	2	$\frac{1}{2}$

NOTE.—Students desiring to take the course leading to the A. B. degree must elect a foreign language. Those desiring to prepare for engineering or scientific courses are required to take preparatory physics, but may elect another unit study in the place of Greek and Roman History.

For first year teachers' course, see page 83.

### DETAILED WORK OF COURSES.

ALGEBRA, 2—Milne's Standard Algebra, from Theory of Exponents to end.

GEOMETRY, 4—All of Durell's Plane Geometry.

ENGLISH, 4—(1) *Rhetoric*: Hill's Beginnings of Rhetoric.  
 2. *Composition*: Class-room themes, one each week, written and rewritten, based upon assigned general reading, with especial attention given to spelling, punctuation, paragraphing and idiomatic expression. (3) *For General Reading*: Tennyson's Gareth and Lynette, Lancelot and Elaine, and the Passing of Arthur; Shakespeare's Macbeth, and Merchant of Venice; Scott's Ivanhoe, and Lady of the Lake; George Eliot's Silas Marner. (4) *For Care Study*: Shakespeare's Julius Cæsar; Macaulay's Essay on Addison; Milton's L'Allegro, Il Penseroso, Comus and Lycidas. (5) *For Memorizing*: Milton's L'Allegro, Il Penseroso, Comus and Lycidas, and selections from Shakespeare's Julius Cæsar, and Tennyson's Idylls of the King.

LATIN, 4—Four Books of Cæsar, or an equivalent; Bennett's Grammar, and Bennett's Latin Writer.



GREEK, 4—White's Beginner's Greek Book, with selections from Xenophon's Anabasis. A thorough mastery of the forms and constructions given in this book is required. M. T. W. Th. 4.

GERMAN, 4—Lange's German Method; translation from German into English; elementary exercises in translating into German; memorizing of easy German songs. Or when one year of German is offered for entrance with one year of Latin, Greek or French, the following may be taken:

GERMAN, 4—Review of grammatical principles with especial reference to syntax; reading of works of modern authors; composition; sight reading; assigned reading; memorizing of German songs.

FRENCH, 4—Grammar (Aldrich and Foster); reading of easy French prose and translation of elementary exercises from English into French. Or when one year of French and one year of one other foreign language are offered for entrance:

FRENCH, 4—Review of grammatical principles with especial reference to syntax; composition; assigned reading; sight reading.

HISTORY, 3—Morey's Outlines of Greek History, first term; Morey's Outlines of Roman History, second term.

WOODWORKING, 4—Principles of carpentry and joinery; wood turning; cabinet work. Sickel's Exercises in Woodworking.

FORGING, 2—Management of fire; drawing; welding; riveting; tempering.

PHYSIOLOGY, 2—Hutchinson's Physiology and Hygiene.

CIVIL GOVERNMENT, 2—Willoughby's Rights and Duties of American Citizenship; Forman's Advanced Civics.

PHYSICS, 2—*Physics*: Lectures; laboratory and written work. *Text*: Higgins'.

AGRICULTURE AND BOOKKEEPING, 4—Elementary Agriculture; Double Entry Bookkeeping and Commercial Law.

PEDAGOGY, 2—Halleck's Psychology and Psychic Culture; Kerr's Country Schools.

NOTE.—In the preceding courses, the figure after each subject indicates the number of hours per week.

In addition to the requirements above mentioned, military science and tactics will be required of male students, or, whenever they are excused, one period per year in other work. One period per year in music, art, elocution, physical culture, or other work, will be required of female students.



# PREPARATORY SCHOOL SCHEDULE FOR 1909-1910.

SECTION	1	2	3	4	5	6	7	8	9
Algebra.....	Tu. Th. 6	M. W. 7	Tu. Th. 7	Tu. Th. 2	M. W. 1	Tu. Th. 1	W. F. 2		
Geometry.....	M. W. Th. F. 7	M. W. Th. F. 2	Tu. W. Th. F. 3	M. W. Th. F. 1	Tu. W. Th. F. 4	M. Tu. W. Th. 3	M. Tu. W. F. 6	M. Tu. Th. F. 5	
English.....	Tu. W. Th. F. 2	Tu. W. Th. F. 6	M. Tu. W. T. 4	M. Tu. Th. F. 4	Tu. W. Th. F. 6	M. Tu. W. Th. 7	M. W. Th. F. 3		
History.....	M. W. F. 6	M. W. F. 1	M. W. F. 7	M. W. F. 3	Tu. Th. F. 1	Tu. Th. 6, F. 7			
Latin.....			M. Tu. W. F. 1	Tu. W. Th. F. 6	M. Tu. W. T. 3				
Greek.....						M. Tu. W. Th. 4			
*German.....	Tu. W. Th. 1		M. Tu. Th. 1	Tu. W. F. 7	M. W. F. 3	T. W. F. 4	M. W. F. 4		
French.....				Tu. W. Th. 7		M. W. F. 2			
Woodworking.....	M. 1-4	Tu. 1-4							
Forge.....	W. 3, 4	Th. 3, 4							
Physiology.....									
Civics.....				Tu. Th. 3	M. W. 3				
Physics.....			Tu. Th. 2	W. F. 2					
Agriculture.....			M. Tu. W. T. 2						
Pedagogy.....		Th. F. 8			Th. F. 8				
Elocution, with any section.....									
Music, Art, Phys. Culture, any sect'n.....									
Drill, all sections.....	M. Tu. W. 8								

NOTE.—In the columns for sections, the letters indicate the days, and figures the periods.

\*Sections 1, 4, 5 and 6 are for the first course in German, the others for the second.

# THE MEDICAL SCHOOL

Little Rock.

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- JOHN NEWTON TILLMAN, LL. D.,  
*President of the University.*
- EDWIN BENTLEY, M. D., U. S. A. (Retired),  
*Professor of Principles and Practice of Surgery.*
- JAMES H. LENOW, A. M., M. D.,  
*Professor of Genito-Urinary Diseases, and Dean.*
- LOUIS R. STARK, M. D.,  
*Professor of Gynecology.*
- E. R. DIBRELL, M. D.,  
*Professor of Medicine.*
- FRANK VINSONHALER, M. D.,  
*Professor of Ophthalmology and Otology.*
- W. H. MILLER, M. D.,  
*Professor of Obstetrics.*
- F. L. FRENCH, M. D.,  
*Professor of Anatomy.*
- CARLE E. BENTLEY, M. D.,  
*Professor of Principles and Practice of Surgery and  
Clinical Surgery.*
- JOHN R. DIBRELL, M. D.,  
*Professor of Clinical Microscopy and Bacteriology.*
- ANDERSON WATKINS, M. D.,  
*Professor of Principles and Practice of Surgery.*
- C. E. WITT, M. D.,  
*Professor of Materia Medica and Therapeutics, and  
Secretary.*
- MORGAN SMITH, M. D.,  
*Professor of Physiology.*
- A. R. STOVER, M. D.,  
*Professor of Chemistry.*
- M. D. OGDEN, M. D.,  
*Professor of Pathology and Histology.*
- O. K. JUDD, M. D.,  
*Professor of Anatomy.*
- A. E. HARRIS, M. D.,  
*Professor of Clinical Medicine and Physical Diagnosis.*

- OSCAR GRAY, M. D.,  
*Professor of Clinical Gynecology.*  
J. L. DIBRELL, M. D.,  
*Demonstrator of Anatomy.*  
E. P. BLEDSOE, M. D.,  
*Professor of Nervous Diseases.*
- 

**Lecturers, Instructors and Demonstrators.**

- MORGAN SMITH, M. D.,  
*Instructor in Pediatrics.*  
A. L. CARMICHAEL, M. D.,  
*Instructor in Clinical Medicine.*  
J. G. WATKINS, M. D.,  
*Assistant in Ophthalmology and Otology.*  
J. C. CUNNINGHAM, M. D.,  
*Assistant in Obstetrics.*  
M. D. McCLAIN, M. D.,  
*Assistant in Genito-Urinary Diseases.*  
MILTON VAUGHAN, M. D.,  
*Assistant in Materia Medica and Therapeutics.*  
WM. GOODWIN, M. D.,  
*Assistant in Clinical Microscopy and Bacteriology.*  
C. V. SCOTT, M. D.,  
*Assistant in Clinical Surgery.*  
H. H. KIRBY, M. D.,  
*Instructor in Dermatology and Assistant Demonstrator of  
Anatomy.*  
A. M. ZELL, M. D.,  
*Assistant in Pathology.*  
J. A. TELLER, A. B., LL. B.,  
*Lecturer on Medical Jurisprudence.*  
(To be supplied.)  
*Instructor in Chemical Laboratory.*  
R. L. MAXWELL, M. D.,  
*Prosecutor of Anatomy.*  
(To be supplied.)  
*Assistant Demonstrator of Anatomy.*
- 

All communications should be addressed to  
C. E. WITT, M. D.,  
Secretary of the Faculty, Little Rock, Ark.

# THIRTY-FIRST ANNUAL ANNOUNCEMENT

## OF THE

### UNIVERSITY OF ARKANSAS

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#### MEDICAL DEPARTMENT

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#### HISTORICAL.

The Medical Department of the Industrial University was organized in 1879 and the first course of lectures commenced on Tuesday, October 7, 1879, and continued until March, 1880, there being twenty-two matriculants, one of whom received the degree of Doctor of Medicine. Each succeeding year the faculty has awarded diplomas to classes of increasing size until the alumni now number over four hundred and fifty. There have been about twenty-seven hundred matriculations since the school began.

The Department's first building was located at 113 West Second street, but owing to its rapid growth, the present building, designed for the purpose, was erected on Second and Sherman streets in 1890. This building has again been outgrown and there is now in contemplation a magnificent new structure, the details of which are given elsewhere. The name was changed by legislative enactment to University of Arkansas, Medical Department, in 1899.

#### GENERAL STATEMENT.

The thirty-first annual session of the University of Arkansas, Medical Department, will begin Friday, October 1, 1909, and will continue for seven months, until April 30, 1910.

The matriculation book will be open from and after September 1, to students wishing to matriculate early and secure choice seats.

The trustees and faculty wish to express their appreciation of the continued support of the public and of the medical profession for the past thirty years. It has always been their ambition to keep abreast of the rapid progress which is being made in medical education, and the buildings, laboratories and various departments have been progressively extended to meet these growing demands.



The Department has thus received the cordial endorsement of the Arkansas Medical Society, which annually appoints a Board of Visitors.

### CO-EDUCATION.

The Department is co-educational, women being admitted on the same terms as men.

### GRADED COURSE.

The required period of study for the Degree of Doctor of Medicine is four years. The first two years are devoted mainly to the fundamental branches of medicine, while in the last two, Medicine, Surgery, Obstetrics and the various specialties are studied in the hospitals, the Isaac Folsom Clinic and the laboratories.

FIRST YEAR—Anatomy, Practical Anatomy, Physiology, Inorganic Chemistry, Histology, and Materia Medica.

SECOND YEAR—Anatomy, Practical Anatomy, Physiology, Organic Chemistry, Toxicology, Materia Medica, Pathology, Obstetrics and Bacteriology.

THIRD YEAR—Materia Medica and Therapeutics, Obstetrics, and Diseases of Children, Clinical Microscopy, Elements of Medicine and Surgery.

FOURTH YEAR—Practice of Medicine, Surgery, Dermatology, Venereal Diseases, Gynecology; Disease of the Eye, Ear, Nose and Throat; Diseases of the Nervous System, Medical Jurisprudence and Medical Ethics.

### ADMISSION.

Applicants for admission are expected to give the faculty satisfactory evidence that they possess the necessary qualification for the study of medicine.

The following is Article IV of the Constitution of the Southern Medical College Association, of which the Department is a member:

"Every student, before being matriculated for the first course of medical lectures in any college belonging to this Association, shall be required to possess the following qualifications:

"He shall hold a certificate from some known, reputable physician, showing his moral character and general fitness to enter upon the study of medicine.

"He must possess a diploma of graduation from some literary or scientific institution of learning, or a certificate that he has passed the entrance examination to a university, or a certificate from some legally constituted high school. The minimum preliminary education required by the Southern Medical College Association shall be, after January 1, 1906, a grammar school education and two years' successful attendance at a recognized preparatory school or high school, or its equivalent, said equivalent to be determined by a superintendent of public instruction. A student may be given one month from the date of his admission to submit his certification.

"And if he fails to possess the requisite educational qualifications in one or more branches, he may matriculate and attend his first course of lectures, but must present the required certification before matriculating in the second course, and all tickets of certification issued in such cases must have the condition printed plainly on the face of each.

#### **"Advanced Standing.**

"A set of tickets showing that the holder has attended one full course of medical lectures in any regular and recognized medical college shall be essential for matriculating for a second course of lectures in any college belonging to this Association; and every student, prior to matriculating for a third or fourth course of lectures, shall be required to show, by similar evidence, that he has previously taken two or three courses of lectures."

The following classes of students may apply for advanced standing and obtain it, provided every applicant undergoes a satisfactory examination upon every branch below the class desired to be entered.

(a) Graduates of dentistry, of pharmacy and of veterinary medicine.

(b) Graduates and matriculates who have completed one or more courses in colleges of homeopathy and of eclectic medicine.

(c) Graduates of recognized colleges and universities who have completed therein prescribed courses in elementary branches of medicine, including chemistry and biology.

### GRADUATION.

Each candidate for graduation must produce satisfactory evidence of good moral character and of having attained the age of twenty-one years.

No candidate shall be eligible for final examination for graduation unless he files the proper official evidence that he has matriculated at some regular college for four sessions, and in the course of same has attended four full courses of instruction on anatomy, including dissections, physiology, chemistry, materia medica, obstetrics, therapeutics, surgery, pathology, bacteriology and practice of medicine. The last of the four full courses must be attended at the UNIVERSITY OF ARKANSAS, MEDICAL DEPARTMENT. No four consecutive courses of instruction shall be held as satisfying these requirements, unless the time between the beginning of the first course and end of the fourth is greater than forty-three months. He must have paid all the college fees.

He must present to the Secretary before the 1st of March the amount of his graduation fee. In case of failure to pass a satisfactory examination, the money will be refunded.

### LOCATION.

The city of Little Rock is conveniently situated in the center of the State, and railroads enter from every direction, making it easily accessible.

It has a population of more than sixty-five thousand, and is classed as one of the healthiest cities west of the Mississippi River. All of the eleemosynary institutions of the State, county and city, are located here. These include the Schools for the Blind, the School for Deaf Mutes, the Insane Asylum, Penitentiary, Reform School, County and City Hospitals, etc., all of which contribute to the abundant clinical material at the disposal of the faculty.

### DEPARTMENT BUILDING.

The present building is a brick structure three stories in height and admirably arranged for the convenience of both students and instructors. It has a large lecture hall, a fine amphitheater, museum, dissecting room, laboratories, etc. It is situated on Second and Sherman streets.



### NEW BUILDING.

The City Council of Little Rock has made an appropriation for a new City Hospital, to be known as "The Logan H. Roots Memorial Hospital," which will be built in conjunction with a new, modern building of the Medical Department, and the new building for the Folsom Clinic. As all of these buildings will be practically under one roof the student will have unexcelled advantages in the clinics and laboratories. The cost of the new Hospital and Medical Department with the Isaac Folsom Clinic will be between \$80,000 and \$100,000, and the work will be pushed to completion as rapidly as possible.

### HOSPITALS.

The Logan H. Roots Memorial Hospital, by the munificence of the late Col. Logan H. Roots and the benevolence of his widow, the city of Little Rock has an elegant public hospital. THE MEDICAL DEPARTMENT OF THE UNIVERSITY OF ARKANSAS is fortunate in having this hospital situated on lots adjoining and directly connected with their own building, thus giving greatly increased clinical facilities.

The St. Vincent's Infirmary, designed solely for the treatment of acute diseases, has a capacity of nearly a hundred beds. This hospital is splendidly equipped and furnished with modern conveniences and improvements, is in the very best sanitary condition, and under the supervision and management of trained nurses, Sisters of Charity. This magnificent institution, conveniently situated, is the finest and best equipped institution of its kind in the Southwest, and is up-to-date in every respect.

The Pulaski County Hospital, erected at a cost of some \$100,000, is a handsome brick structure, well arranged, complete in all its equipments, and has a capacity of two hundred beds.

The inmates of these different institutions embrace all classes and conditions of people—white, colored, male, female, adults and children—and with them are found almost every form of malady, except quarantinable diseases, which are otherwise provided for.



### THE ISAAC FOLSOM CLINIC.

This clinic is thus designated in honor of the late Dr. Isaac Folsom, and in consideration of his liberal endowment with the sum of \$20,000. The daily instruction in this clinic is thoroughly practical, and is attended by a large number of outdoor patients from the city and surrounding country. It embraces a wide range of diseases and injuries. More than six thousand patients attended this clinic last year.

### EXPENSE OF LIVING.

The expense of living in the city of Little Rock will, of course, vary according to the views and habits of the students. Good board, at the present time, including lodging, fuel, and lights, may be had at a convenient distance from the college, at from \$4 to \$6 per week, and from \$13 to \$18 per month.

Students on their arrival are requested to visit the University building, corner of Second and Sherman streets, where a list of parties desiring to board medical students will be furnished by the janitor.

Persons desiring further information are requested to address the Secretary of the Faculty.

### TERMS.

*All fees payable in advance at the beginning of the term. Except graduation fee.*

When a student enters the school and pays the required fees, it is taken for granted that he has given the matter due consideration, and that he is prepared to pursue the course of study prescribed. The faculty stands ready to perform its part of the work as laid down in the curriculum. For these reasons fees once paid by the student can not for any cause whatsoever be refunded nor transferred. A student, however, who has paid his tuition fee and for good reason is unable to complete his session, will be given credit for the amount, and upon his return to the school at some subsequent time, he will not be required to pay the same fee for the second time.

The fees of this institution are \$285 for the four-years' course.

Considering the exceptional advantages for practical instruction in hospital and laboratories, and the constant care and labor

bestowed upon the pupils, the charges are as low as are compatible with the superior advantages given; and the faculty therefore appeal to their professional brethren throughout the Southwest to continue their support to an institution which does not seek to increase the size of its classes by pecuniary rivalry and discreditable underbidding, but by offering a full equivalent for its charges.

**Table of Fees for Every Year of the Four-Year Course.**

	First Year.	Second Year	Third Year	Fourth Year.
Matriculation .....	\$ 5 00	\$ 5 00	\$ 5 00	\$ 5 00
Professors, Lectures, Etc.....	60 00	60 00	60 00	60 00
Graduation, Diploma, Etc.....				25 00
Total.....	\$65 00	\$65 00	\$65 00	\$90 00

There are no fees for special courses or quizzes in this college. No professor or assistant is allowed to receive a fee for instruction.

No extra charge will be made for dissecting material, demonstrator's or hospital tickets.

The Secretary will issue matriculation cards, which must be presented whenever required. Attendance upon lectures and other exercises will be denied to those who do not present such cards.

*Students have the privilege of attending all lectures and clinics whenever they do not conflict with their prescribed course.*

## THE LAW SCHOOL

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- JOHN NEWTON TILLMAN, LL. D.,  
*President of the University.*
- J. H. CARMICHAEL, LL. B., DEAN,  
*Contracts, Constitutional Law, Conflict of Laws, Judgments.*
- JOHN FLETCHER, LL. M.,  
*Real Property.*
- GEORGE W. MURPHY, LL. B.,  
*Law of Evidence.*
- TOM M. MEHAFFY, LL. B.,  
*Law of Torts.*
- JACOB TRIEBER, LL. B.,  
*Federal Procedure.*
- ASHLEY COCKRILL, LL. B.,  
*Law of Insurance.*
- JESSE C. HART, LL. B.,  
*Equity of Jurisprudence.*
- WILLIAM M. LEWIS, LL. B.,  
*Criminal Law and Procedure.*
- T. N. ROBERTSON, LL. B.,  
*Agency, Corporations, Negotiable Instruments, Pleading  
and Practice.*
- T. E. HELM, LL. B.,  
*Fraudulent Conveyances.*
- MENIFEE HOUSE, LL. B.,  
*Law of Sales.*
- R. E. WILEY, LL. B.,  
*Law of Bankruptcy.*
- W. B. BROOKS, LL. B.,  
*Domestic Relations, Real Property—Junior.*
- R. C. POWERS, LL. B.,  
*Law of Bailments and Torts.*
- J. K. RIFFEL, LL. B.,  
*Law of Partnerships.*
- GEORGE VAUGHAN, LL. B.,  
*Abstracting and Searching Titles.*

### LOCATION.

The Law Department of the University of Arkansas is located in the city of Little Rock. The location is an ideal one for the school. Being the capital city, the legislature meets here every two years, thus affording each student an opportunity during his course to witness one session of that body, to observe its proceedings, to study parliamentary rule and practice, and to meet representative men from different parts of the State.

The Supreme Court of the State sits in this city and is in session about nine months of each year. Students have full opportunity to attend its deliberations, to listen to arguments by the ablest lawyers of this and other States before this distinguished tribunal, and to hear the opinions of the court upon propositions of law and determination of causes submitted for their decision and final disposition.

Through an arrangement with the clerk of the Supreme Court, the school is enabled to secure each student access to the Supreme Court library, where almost any book on a legal subject may be found. The library is a very fine one, and the opportunity thus afforded to students to use same is of incalculable benefit.

The federal district and circuit courts, two State circuit courts, a chancery court, and county and probate court, police and magistrate's courts are all accessible to the student for observation and instruction, both in the law and in the practical procedure in the courts for the enforcement of its principles.

The city has an able bar, the members of which are kind and courteous to beginners in the work of the profession, and generously extend to them aid and counsel.

Little Rock has a semi-tropical climate, free from extremes of heat and cold and admirably suited to the needs of the student.

### PURPOSE.

It is not the purpose of the Law Department of the University of Arkansas to persuade any young man to study law who does not of his own free will choose to do so. But all those who contemplate the study with the view of entering upon the practice of the law as a profession or for the protection and valuable assistance a knowledge of the law affords in the successful prosecution of almost every line of business enterprise, or even for the



mental culture, the broad and liberal conception, the lucid and logical reasoning, the just and accurate conclusion, which are so manifestly characteristic of the legally-trained mind, the Department respectfully solicits their patronage. It is to be presumed that every true son of Arkansas who aspires to the practice of the law as a profession in this State has enough State pride to select his home institution to prepare himself for his chosen vocation. Especially should this presumption hold when the advantages afforded him by the Law Department of his own State University are equal, and to him, in many important particulars, superior, to those of similar institutions of other States. The instructors of this Department of our State University are all active practitioners of the law and have engaged in this educational work from a realization of the pressing needs of such an institution as a department of the educational system of the State to meet the demands of our young men, who are the State's best hope for her future lawyers and statesmen.

### ADMISSION.

While we fully appreciate the advantages of a thorough collegiate training in the various academic branches as a preparation for the study of the law, we have not made such acquirement a prerequisite to admission to this Department. Applicants will be admitted to take up the studies of the junior course who are possessed of a fair English education, such as may be acquired in our public schools. Students may be admitted to the senior course upon producing sufficient proof of their having given the necessary time and study to the different subjects of the law, either in another law school or under the direction of a practising lawyer, but no student will be granted the degree until he has passed a satisfactory examination on all the branches embraced in the full course for the two years.

### COURSE OF INSTRUCTION.

The course of instruction covers a period of two years, consisting of four terms. We deem a shorter period insufficient for the proper preparation of the student of the law for his profession. In the language of a distinguished jurist, "He who is not a good lawyer when he comes to the bar will seldom be one

afterwards." Our method of instruction consists of daily recitations upon previously assigned lessons in the text-books, with special lectures to emphasize the conclusions of the author, and to enlarge the student's conception of the same. We deem the above system of instruction, with daily recitations largely predominating, superior to either the recitation or lecture system when pursued alone. In addition to the above, students are required to prepare and submit to the professors legal papers in the form of briefs upon the various topics of the text-writers, thus combining the abstract theory of the law with the practical application of the same to the different sets of facts embraced in the various decisions of the courts consulted by the student while preparing his paper. The course of study for the two years will embrace the subjects named and assigned, as follows:

### Junior Year.

FIRST TERM—Contracts, Agency, Criminal Law, Torts, Partnerships.

SECOND TERM—Corporations, Negotiable Instruments, Real Property, Bailments, Insurance, Sales.

### Senior Year.

FIRST TERM—Real Property, Equity, Domestic Relations, Constitutional Law, Fraudulent Conveyances.

SECOND TERM—Real Property, Evidence, Pleading and Practice, Conflict of Laws, Federal Procedure, Judgments, Legal Ethics, Bankruptcy, Medical Jurisprudence.

The first term of each year's course begins on the third Monday in September; the second term begins on the third Monday in January and ends on the first Friday in June.

### List of Text-books.

Anson on Contracts; Tiffany on Agency; Clark on Criminal Law; Hale on Torts; Shumaker on Partnerships; Clark on Corporations; Daniel and Douglass on Negotiable Instruments; Real Property—Junior, Blackstone; Van Zile on Bailments; Vance on Insurance; Tiffany on Sales; Tiedeman on Real Property; Eaton on Equity; Tiffany on Persons and Domestic Relations; Cooley

on Constitutional Law; Wait on Fraudulent Conveyances; Greenleaf on Evidence; Bryant's Code Pleading; Minor on the Conflict of Laws; Curtis on Jurisdiction of United States Courts; Black on Judgments; Frank on Bankruptcy; Reese on Medical Jurisprudence.

### **Publishing Houses of Foregoing Text-books.**

Anson on Contracts, Van Zile on Bailments, Greenleaf on Evidence—Callaghan & Co., Chicago; Tiffany on Agency, Clark on Criminal Law, Hale on Torts, Clark on Corporations, Vance on Insurance, Tiffany on Sales, Eaton on Equity, Tiffany on Persons and Domestic Relations, Black on Judgments—West Publishing Company, St. Paul, Minn.; Shumaker on Partnerships—Keefe-Davidson Company, St. Paul, Minn.; Daniel and Douglass on Negotiable Instruments, Wait on Fraudulent Conveyances and Creditors' Bills—Baker, Voorhis & Co., New York City; Real Property (Blackstone)—J. B. Lippincott Company, Philadelphia; Tiedeman on Real Property—The F. H. Thomas Law Book Company, St. Louis; Cooley on Constitutional Law, Minor on the Conflict of Laws, Bryant's Code Pleading—Little, Brown & Co., Boston, Mass.

### **MOOT COURTS.**

Moot Courts begin with the last term of the Junior Year and continue throughout the course, and are termed the judicial department of the school, and embrace all the courts—Justice, Probate, Circuit and Supreme—all modeled according to the constitutional requirements of our State.

The Supreme Court shall consist of three Judges, a Chief Justice and two associates.

The Circuit Court shall consist of one Judge, a Clerk, and a Sheriff, to be elected by the students.

County and Probate Court shall consist of one Judge, a Sheriff, and a Clerk, to be elected by the students.

Justice of the Peace Court shall consist of a member of the Senior Class, who shall be elected by the student body.

These courts shall be under the immediate supervision of the Dean, who will be assisted by the members of the faculty in compiling statements of facts embracing principles of law pertaining to the respective branches under their instruction, for the use of said courts.



### GOAR LYCEUM.

This society is composed of the students of both the Junior and Senior Years, and meets regularly every Wednesday night during the session. The exercises consist chiefly of theses and debates embracing subjects legal in their nature. The performance of these exercises is insisted upon by the faculty, for such practice enables the student to acquire the invaluable faculty of learning "to think whilst on his feet," besides giving him an easy manner of address in public speaking.

### EXAMINATIONS.

Written examinations are held each term in the presence of a member of the faculty, upon questions handed the student at the time, and on the merit of their papers students will be graded.

### DEGREES.

The degree of Bachelor of Laws will be conferred upon all students who have passed an examination on each of the subjects embraced in the course, and have attained the average standard grade of proficiency.

### CLASS HONORS.

Honorable competition is the life of all enterprise; therefore, we confer the following evidences of distinction: Upon the student attaining the highest average grade shall be conferred the distinction of first honor man of his class; the one attaining the next highest, the second honor man; and the one making the next highest, the third honor man.

The faculty authorizes the selection of three orators to deliver orations at the commencement exercises, as follows: The Senior Class, one; the Junior Class, one; and the Goar Lyceum, one.

### PROFESSIONAL ETHICS.

While endeavoring to impart a knowledge of the fundamental principles of the law, the subject of professional ethics will be given special attention and its demands constantly impressed upon the minds of the students as indispensable to the attainment of an honorable and successful career as a lawyer.



### ADMISSION TO THE BAR.

By a recent act of the Legislature all graduates of the Law Department of the University of this State are admitted to the practice of law in the Supreme Court and all inferior courts of the State without the requirement of an examination.

### THE LAW SCHOOL VS. THE LAWYER'S OFFICE.

The once prevalent idea that the proper preparation for the profession of the law is "to read law" in come distinguished lawyer's office is at this day and time completely exploded. No lawyer busily engaged in the active practice has the time or the inclination to devote much of his attention to the office student. The lack of system in outlining the course of study and the repeated failure to conduct the daily quiz and instruction lead the student into such confusion and discouragement, whereby his progress is greatly retarded.

The late Chief Justice Wait, in referring to this question, said:

"The time has gone by when an eminent lawyer, in full practice, can take a class of students into his office and become their teacher. Once that was practicable, but now it is not. The consequence is that law schools are now a necessity."

The superior advantages offered by the law school over the lawyer's office to prepare students for the legal profession, were so ably and clearly presented in the report of the Standing Committee on Legal Education and Admission to the Bar, of the American Bar Association, in 1879 and 1881, a committee consisting of Carlton Hunt, of Louisiana; Henry Stockbridge, of Maryland; U. M. Rose, of Arkansas; George Hoadley, of Ohio, and Edmund H. Bennett, of Massachusetts, that we quote the following as the conclusion of the above committee in their report, which was unanimously adopted by the association:

"There is little, if any, dispute now as to the relative merit of education by means of law schools, and that to be got by more practical training or apprenticeship as an attorney's clerk. Without disparagement of mere practical advantages, the verdict of the best-informed is in favor of the schools.

"The benefits which they offer are easily suggested, and are of the most superior kind. They afford to the student an acquaintance with general principles, difficult, if not impossible, to be otherwise attained; they serve to remove difficulties which are

inherent in scientific and technical phraseology; and they, as a necessary consequence, furnish the student with the means for clear conception and accurate and precise expression. They familiarize him with leading cases, and the application of them in discussion. They give him the valuable habit of attention, teach him familiar maxims, and offer him the priceless opportunities which result from constant and generous emulation. They lead him readily to survey law as a science, and imbue him with the principles of ethics as its true foundation. Disputing, reasoning, reading, and discoursing, because his constant exercise."

Again, in an able paper read before the New York State Bar Association by Franklin M. Danaher, a member of the State Board of Examiners, on the 20th of January, 1897, we find the following language:

"Observation shows that under modern conditions existing in the profession, an education in law can not be procured exclusively in a law office, and that those who have had the benefit of law-school training are better equipped to enter upon their career, and are more likely to succeed therein than those who come to the bar through an office. \* \* \* Members of the bar of the future, to succeed, must have a scientific, well-directed and comprehensive training in a law school. The fact that many of the lawyers of to-day did not have that advantage and still succeed is no reason why the future will not demand it. \* \* \* The great problem of the higher education of the bar can be materially helped toward solution, and the bar decidedly improved along lines of public and professional good, by requiring the successful completion of a course of study in an approved law school of all future applicants for admission."

### TUITION AND EXPENSES.

Tuition, Junior Course, payable on entrance.....	\$60 00
Tuition, Senior Course, payable on entrance.....	60 00
Board and Lodging, per month.....	\$15.00 to 20 00
Diploma .....	5 00

Text-books can be procured with students' discount.

No library or society fees are required of students.

All communications should be addressed to the Secretary.

T. N. ROBERTSON,

Little Rock, Arkansas.

**ALUMNI ASSOCIATION.**

The object of this Association is to perpetuate a bond of union among its members, to encourage a spirit of friendship, and to promote the interest of the Law Department and its alumni.

The officers of the Association for 1908-1909 are:

Frank H. Dodge, Little Rock, President.

T. C. Trimble, Jr., Lonoke, Ark., Vice-President.

John P. Streepey, Little Rock, Ark., Secretary and Treasurer.

The Association meets in Little Rock for the election of officers and transaction of other business on the day of the annual banquet, which is held during the commencement of the Law Department in June.

# THE BRANCH NORMAL COLLEGE

Pine Bluff.

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ISAAC FISHER, Principal,

*Psychology, Ethics, and Pedagogy.*

ABRAHAM WILLIS JOHNSON,

*Mathematics, English, and Latin.*

FREDERICK THOMAS VINEGAR,

*Latin, Mathematics, and Physics.*

ELLA CHARLOTTE MAYS,

*Algebra, Arithmetic, Ancient History, and Music.*

THOMAS CLAY OGBURN,

*Chemistry, Geography, United States History.*

SADIE M. PEEBLES,

*Free Hand Drawing, English, and Arithmetic.*

IRENE V. COLEMAN,

*Instructor in English, Geography, and Arithmetic.*

MAMIE BRAWLEY JUNE,

*Dressmaking.*

BURTON NEIL WILSON, B. Sc. M. E.

*Superintendent of Mechanic Arts.*

WILLIAM STEPHENS HARRIS,

*Assistant Superintendent of Mechanic Arts.*

JAMES LINCOLN ROSS,

*Machine Shop and Forge.*

## GENERAL STATEMENT.

The Branch Normal College is a division of the University of Arkansas, established pursuant to an act of the general assembly of the State of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient service in the colored public schools of the State. Tuition is made free to all appointees, the only requirements for admission being suitable age and qualification, appointment by one of the county judges, and the payment of the matriculation fee of five dollars. Other students pay in addition one dollar per month in advance.



### **EQUIPMENT.**

The college property consists of a beautiful tract of twenty acres of ground, in the suburbs of Pine Bluff, Jefferson County. A handsome and comfortable school building, a dormitory for girls, and manual training shops, containing as complete an equipment as can be found in any similar shops in the South.

### **REQUIREMENTS FOR ADMISSION.**

Candidates must be at least sixteen, if young men, and fourteen, if young women; and must pass satisfactory examinations in arithmetic, English grammar, geography and United States history.

### **APPOINTMENT OF BENEFICIARIES.**

By the laws of the State, the appointment of students to the Branch Normal College in numbers from each county in the State is the same as to the parent University at Fayetteville. The power is vested in the county courts, but any vacancies occurring during the vacations of the court shall be filled by the Judge of the County Court.

All students thus appointed are entitled to four years' free tuition upon the payment of five dollars' matriculation fee in advance at the time of entering the institution.

These appointments are not transferable, and students holding them must be very careful that their conduct is not such as will lead to their forfeiture; and it may also be stated that the principal reserves the right to declare forfeited the appointments of those students who are not present at the opening of the autumn term.

Students planning to enter the college should go to their county judges for appointments, which, if received, must be brought to the college. Blanks for appointments may be secured by addressing Principal Isaac Fisher, Pine Bluff, Ark.

### **NORMAL DEPARTMENT.**

The college offers a good course of training for those who plan to become teachers. More and more the aim will be to give scientific instruction in the matter of teaching the branches of

public schools. Arrangements have been made with the superintendent of the Pine Bluff public schools by which the student-teachers of this college may inspect the school system in actual operation. Candidates completing the work of this department will be granted the certificate of Licentiate of Instruction (L. I.). Applicants must pass a satisfactory examination in the ordinary English branches to be able to enter the school.

### **CLASSICAL DEPARTMENT.**

Candidates completing this course will be granted the degree of Bachelor of Arts (A. B.), but no candidate failing to write and submit an original thesis to the teacher of English will be given this degree. The subject of thesis must be selected in December of the Senior year.

### **THE MECHANIC ARTS DEPARTMENT.**

This department offers a splendid opportunity to young colored men to become skilled blacksmiths, machinists, engineers and firemen. The mechanic arts course and the manual training normal course are strong combinations of shop work and literary training. It is hoped that these courses will from time to time attract young men who desire to fit themselves for higher usefulness by preparing for the pursuit of those occupations for which there is a strong demand. In addition to these there is offered a course in woodworking, which comprises cabinet making, pattern making and carpentry.

### **DEPARTMENT OF DRESSMAKING.**

Young women are here given an opportunity to learn plain sewing, crocheting and art needlework. There is a fine outfit of sewing machines and other requisites for doing the work planned by this department.

### **TYPEWRITING AND STENOGRAPHY.**

These subjects are taught one hour each day. Shorthand classes will be formed whenever a sufficient number of students desire to pursue this study.

### MILITARY DRILL.

The young men of the college have been organized into a battalion of cadets to promote habits of neatness, order, and punctuality, and to develop an ennobling self-control in every young man connected with the school.

Under the military system thus established, it is aimed to exercise that control of the cadets which is so essential to easy and proper discipline. All young men are subject to the drill regulations.

### PHYSICAL EXERCISE.

An athletic association for the purpose of fostering clean athletics and at the same time giving healthful exercise, has been organized under the direction of a member of the faculty, who will see that no excesses are indulged in, and that sports do not interfere with the work of the other departments. Physical culture for young women is also a feature of the college work.

### PUBLIC RHETORICALS.

Twice every month public rhetorical are held in the chapel and all students are subject to assignment on the programs.

### RELIGIOUS LIFE.

Prayers are held in the chapel every morning except Saturdays and Sundays. All students are required to attend these devotions. On Sundays, the students who board in the town attend the various churches, while the girls living in the dormitory are taken to the churches of their several choices by members of the faculty.

### HOLIDAYS.

The exercises of the college are suspended for one day at Thanksgiving, one on Washington's Birthday, and about ten days at Christmas.

### LECTURE COURSE.

A course of lectures on live topics is given during the year. These are free, both to the students and to the public.

**TRUSTEES' PRIZE.**

This prize consists of twenty-five dollars, and is given to "that member of either of the two highest classes who shall during commencement week pronounce the best oration on any one of a number of subjects to be selected by the principal."

**GENERAL EXERCISES.**

The general exercises include reviews of the Sunday-school lessons and of the events of the week; also music and drawing. There are regular lessons in vocal music which are given to all students. Students will frequently be required to give public evidence of their skill in using the library intelligently. All exercises must be attended faithfully.

**EXPENSES.**

For all students, matriculation fee, in advance.....	\$ 5 00
Board, fuel, and light, for girls in the dormitory.....	8 00
Board, fuel, and light, in private families.....	\$8.00 to 10 00
Non-beneficiary students, for tuition, per month.....	1 00

Books at usual retailers' price.

Entrance fees and board bills are payable in advance.

For further information concerning any department of the college, address the principal,

ISAAC FISHER,  
Pine Bluff, Ark.



# REGISTER OF STUDENTS

## THE COLLEGE.

*Abbreviations*—B. A., Bachelor of Arts; B. S. A., Bachelor of Scientific Agriculture; B. M. E., Bachelor of Mechanical Engineering; B. C. E., Bachelor of Civil Engineering; B. E. E., Bachelor of Electrical Engineering; B. Mi. E., Bachelor of Mining Engineering; B. Ch. E., Bachelor of Chemical Engineering; M. A., Master of Arts; M. S., Master of Science; C. E., Civil Engineer; E. E., Electrical Engineer; M. E., Mechanical Engineer; L. I., Licentiate of Instruction.

### Graduates.

Name.	Course.	Post Office.	Boarding Place.
Beard, A. H., B. C. E.	C. E.	Harrisburg, Pa.	
Boles, Ashley Pannel, B. A.	M. A.	Fayetteville	20 N. E.
Field, Terry, C. E.	M. E.	Little Rock	Gregg House
Hardin, Lena Jeanne, B. A.	M. A.	Fayetteville	Hill
Shook, Sarah, B. A.	M. A.	Fayetteville	138 Hill
Woodson, Edwin Francis, C. E.	E. E.	Huntington	17 Hill
			Total, 6.

### Seniors.

Allen, Estes	B. A.	England	Mt. Nord
Allen, Joe Cleveland	B. A.	Hatfield	Hill Hall
Bayley, William Sydney	E. E.	Ft. Smith	537 Leverett
Bell, Lexie	B. A.	Benton	Carnall Hall
Blair, Dan	C. E.	Decatur	Buchanan Hall
Blair, Theron C.	B. A.	Van Buren	Buchanan Hall
Bunn, James B., Jr.	B. A.	Hamburg	Buchanan Hall
Carnall, Bess Estelle	B. A.	Ft. Smith	Carnall Hall
Cash, Cecil Chadwick	B. A.	Texarkana	Gray Hall
Chamberlain, Roy R.	B. A.	Malvern	205 E. Dickson
Coker, John	C. E.	Lead Hill	Buchanan Hall
Coleman, Nell	B. A.	Little Rock	Carnall Hall
Davis, Arthur Chas.	M. E.	Fayetteville	420 Arkansas
Davis, Opie Lee	C. E.	Marcella	Buchanan Hall
Douglass, Frances	B. A.	Fayetteville	Arkansas Building
DuLaney, Jno. Jefferson	B. A.	Ben Lomond	Hill Hall
Ellis, Forrest	B. A.	Fayetteville	104 N. College
Farrish, Myrtie	B. A.	Morrilton	Carnall Hall
Ford, David Lane	B. A.	Cecil	Buchanan Hall
Gibson, Ruby	B. A.	Pine Bluff	Carnall Hall
Gibson, Rupert Campbell	B. A.	Berryville	Hill Hall
Gibson, Wm. Butram	B. A.	Berryville	Hill Hall
Greathouse, Ollie May	B. A.	Johnson	227 N. School
Grubbs, Wm. Wylie	B. A.	Wilmar	Buchanan Hall

Name.	Course.	Post Office.	Boarding Place.
Hawkins, Frank Cleyburn	B. A.	Rogers	Buchanan Hall
Hixson, H. Guy	C. E.	Paris	Gray Hall
Holtzclaw, Hanan H.	B. S. A.	Vineyard	Dr. Thomas'
Huntly, Phil Conrad	C. E.	Kirkland	Buchanan Hall
Hurt, Garland	B. A.	Newport	McIlroy House
Jernigan, Wm. James	B. A.	Charlotte	Buchanan Hall
Keeney, Marie	B. A.	Fayetteville	753 W. Dickson
Lambert, Estern Russel	B. A.	Monticello	McIlroy House
Liester, Leroy Bismark	B. A.	Fayetteville	S. West
Machen, Jewell	B. A.	Magnolia	Carnall Hall
McNeil, Ralph Alonzo	C. E.	Rector	435 Washington
McNemer, Phil	B. A.	Little Rock	763 W. Dickson
Mehaffey, James Wm.	B. A.	Little Rock	213 N. Church
Miller, Myrtle E.	B. A.	Fayetteville	219 Block
Mitchell, Ara Evelyn	B. A.	Fayetteville	305 Center
Moore, George Jacob	B. A.	Bentonville	Arkansas
Murphy, Wallace Carl	B. A.	Ft. Smith	Gray Hall
Nelson, John William	C. E.	Mathis, Tex.	Gray Hall
Nesbit, Wm. Edward	B. A.	Fayetteville	420 N. College
Nichols, Elizabeth	B. A.	Muskogee, Okla.	Arkansas bldg
Norton, Delbert Austin	B. A.	Little Rock	McIlroy House
Nunn, Lucy	B. A.	Monticello	Carnall Hall
Oates, Max Bruce	B. S. A.	Fayetteville	N. W. Univ. Farm
Pulley, Cameron Hartwell	B. A.	Fayetteville	N. Block
Read, Alicia Johnston	B. A.	Fayetteville	Read and York
Revel, John William	B. S. C.	Augusta	McIlroy House
Rhodes, Chas. Robert	E. E.	Osceola	763 W. Dickson
Rhodes, Joe Wicks, Jr.	B. A.	Osceola	763 W. Dickson
Russell, Festus	B. A.	Bellefonte	Gray Hall
Sherrill, Jno. Albert	B. A.	Little Rock	Mt. Nord
Shipley, Jno. LeRoy	B. A.	Booneville	Gray Hall
Snell, Merrill Foster	C. E.	Fayetteville	820 Douglass
Spencer, Aileen	B. A.	Monticello	Arkansas bldg
Thetford, Alphonse	B. S. A.	Bradford, Tenn.	727 Douglass
Tillman, Fred Allen	B. A.	Fayetteville	421 N. College
Trent, Bess M.	B. A.	Fayetteville	218 N. Church
Tucker, Justin B.	B. S. A.	Fayetteville	
Warterfield, Elgin Arnold	B. A.	Holdenville, Ok.	Buchanan Hall
Watkins, Guy A.	C. E.	Fayetteville	226 N. College
Westbrook, Howell Lane	B. A.	Pine Bluff	Gregg House
Williamson, Trewman Dale	E. E.	Springdale	West Dickson
Wilson, Chas. Newton	C. E.	Cabot	Buchanan Hall
Winfrey, Lewis Edgar	B. A.	Rudy	Buchanan Hall
Womack, Richard Elwood	B. A.	Centerton	U. of A. Greenhouse
Woods, Jno. Powell	B. A.	Yellville	Buchanan Hall
Wootton, Leonard L.	B. A.	Mena	226 N. College
Yowell, James	B. S. A.	Gallatin, Tex.	614 Ida
			Total, 71.

## Juniors.

Name.	Course.	Post Office.	Boarding Place.
Arnold, Jesse G.	B. A.	Fayetteville	Buchanan Hall
Badenelli, Eugene Bard	C. E.	Wynne	803 W. Dickson
Bailey, Pat Wilson	B. A.	Warren	Center
Barrett, Arthur James	B. A.	Jonesboro	Buchanan Hall
Beane, Ada Louise	B. A.	Rogers	Carnall Hall
Bennett, Fred	C. E.	Benton	Gregg House
Binkley, Ralph Johnson	E. E.	Little Rock	Mt. Nord
Blair, James Hardy	C. E.	Decatur	Buchanan Hall
Blair, Samuel T.	C. E.	Decatur	Buchanan Hall
Blakeley, Gervas T.	B. A.	Coal Hill	324 College
Bledsoe, John Lewis	B. A.	Lacrosse	Buchanan Hall
Boles, Chalmers B.	M. E.	Fayetteville	20 N. E.
Boone, Daniel B.	B. A.	Lonoke	Mt. Nord
Campbell, Sylvester J.	B. A.	Fayetteville	420 E. Lafayette
Carter, Nima	B. A.	Durham	15 Leverett
Childress, Mary Virginia	B. A.	Fayetteville	Frisco
Clark, Wahneetah B.	B. A.	Fayetteville	Dickson
Cole, Kenneth Elmore N.	E. E.	McAlester, Ok.	McIlroy House
Coyle, Norman	B. A.	Coal Hill	Gray Hall
Crawford, Henry Vance	E. E.	Little Rock	Rose Hill
Crook, Clarence B.	M. E.	Newport	McIlroy House
Curl, May	B. A.	Monticello	Carnall Hall
Davis, Carl Gay	B. A.	Fayetteville	1004 W. Center
Davis, Olga	B. A.	El Paso	Mrs. H. Nolan's
Davis, Opal	B. A.	El Paso	Mrs. H. Nolan's
Delongy, Harold Clifford	C. E.	Mena	Gregg House
DeWitt, Frances	B. A.	Harrisonville, Mo.	Carnall Hall
Eason, Herman	E. E.	Fayetteville	
Freeman, John D., Jr.	B. A.	Allene	Rose Hill
Freeman, Thomas Bennett	B. A.	Marianna	McIlroy House
Gardner, Powell B.	B. A.	Tuckerman	Buchanan Hall
George, Finis Jefferson	B. A.	Alpha	Gray Hall
Goodbar, Joseph Ernest	B. A.	Charleston	Hill Hall
Goodwin, Roy Chandler	B. A.	El Dorado	Gray Hall
Goree, James Langston	B. A.	Pine Bluff	Gregg House
Gould, Roy William	B. A.	Pine Bluff	Gregg House
Graham, Simeon Burr	E. E.	Mena	537 Leverett
Gregg, A. Welch	E. E.	Fayetteville	308 Washington
Hall, Julian	B. A.	Fayetteville	212 East
Huxtable, William Guerey	C. E.	Blytheville	McIlroy House
Isom, James Randolph	B. A.	Jonesboro	Dickson
Kantz, Willie W.	B. A.	Fayetteville	
Keck, Henry Manford	B. A.	Gravette	Buchanan Hall
Knox, Virginia	B. A.	Monticello	Carnall Hall
Koser, William Aubrey	E. E.	Marion	420 E. Lafayette
Kunz, Gladys	B. A.	Fayetteville	N. W. of Univ.
Lamberton, Annie L.	B. A.	Harrison	Carnall Hall

Name.	Course.	Post Office.	Boarding Place.
Leuker, Trangott Frederick	B. A.	Dover	Gray Hall
Maguire, Nell	B. A.	Fayetteville	370 Arkansas
Mardis, Paul Lester	E. E.	Clarksville	Rolston
Martin, Herbert Bradley	B. A.	Warren	Gray Hall
Metcalf, Dayton Preston	E. E.	Elk City, Kan.	Gray Hall
McAndrews, Jno. Marshall	C. E.	Bentonville	Gray Hall
McCulloch, Edgar Hassell	B. A.	Little Rock	328 College
McGraw, Ophelia	B. A.	Paris	Carnall Hall
McLellan, Virgie Sharp	B. A.	Pine Bluff	536 Leverett
Miller, Henry Grady	B. A.	Lonoke	Mt. Nord
Mitchell, Solan B.	B. S. C.	Greenway	Gray Hall
Moon, Van Tyson	C. E.	Kirkland	Buchanan Hall
Moreland, Claude M.	E. E.	Jonesboro	Gray Hall
Morgan, Elma	B. A.	Stephens	Carnall Hall
Morgan, Wm. Graves	C. E.	Magnolia	Hill Hall
Niemeyer, Fred William	B. A.	Little Rock	213 N. Church
Patton, Aaron Pinckney	B. A.	Archey	Gray Hall
Phillips, Mack Rogers	B. A.	Gravette	Buchanan Hall
Philpot, Eugene M.	C. E.	Pine Bluff	Gregg House
Plimmons, Lee R.	C. E.	Oden	303 W. Dickson
Pye, Walter D.	C. E.	Little Rock	Buchanan Hall
Reed, Jno. Alvis, Jr.	C. E.	Fayetteville	304 College
Ross, Sam Russell	M. E.	Fayetteville	Douglass
Rye, William Gordon	E. E.	Russellville	Gray Hall
Shannon, Mary Etoile	L. I.	Fayetteville	Spring
Shinn, E. H.	B. A.	Russellville	Gray Hall
Smith, Fred	B. A.	Stephens	763 W. Dickson
Southmayd, Laban Howell	B. A.	Van Buren	Dickson
Stockburger, Arlin Earl	B. A.	Fayetteville	Cleveland
Sutton, Beulah	B. A.	Fayetteville	121 W. Dickson
Thompson, Ross E.	E. E.	Heber	Gray Hall
Tidball, Sue	B. A.	Fayetteville	U. of A. Infirmary
Wasson, Proctor L.	C. E.	Smithville	Buchanan Hall
White, Felix Sloan	E. E.	Fayetteville	
White, Pearl	B. A.	Fayetteville	523 Willow
Williamson, Ernest Russell	B. A.	Tuckerman	Buchanan Hall
Womack, William Vance	B. A.	Centerton	U. of A. Greenhouse
Wood, Corinna Susan	B. A.	Ft. Smith	Carnall Hall
Wooldridge, Harry Tucker	B. A.	Pine Bluff	Gregg House
Zeigler, Ella May	B. A.	Harrison	Carnall Hall
			Total, 87.

## Sophomores.

Abbott, Thomas Oscar	B. A.	Nola	Buchanan Hall
Allen, Benj. Franklin	C. E.	Heber	Gray Hall
Alphin, Hendrick	B. A.	El Dorado	Gray Hall
Ashley, Jno. Carter	B. A.	Violet Hill	Buchanan Hall
Bagley, Henry Stuart	E. E.	Little Rock	Hill Hall
Baker, Alice Ophelia	L. I.	Berryville	Leverett
Barnett, Thomas Jackson	E. E.	Eureka Springs	309 W. Center



Name.	Course.	Post Office.	Boarding Place.
Barton, David Ralph	B. A.	Jonesboro	W. Maple
Beardsley, Joseph M.	C. E.	Gentry	Mt. Nord
Bell, Clifford Henry	E. E.	Hot Springs	121 School
Black, Kate Elizabeth	L. I.	Fayetteville	704 Frisco
Blakemore, William Allen	C. E.	Prairie Grove	Gray Hall
Brown, Clifford John	C. E.	Rison	Gray Hall
Bryan, Frank	B. Mi. E.	Nelson, Okla.	124 Hill
Bryan, John A.	B. A.	Nelson, Okla.	124 Hill
Buck, William Robert	C. E.	Fayetteville	College
Buckley, Virgil Brown	C. E.	Rogers	Gray Hall
Burnside, Mollie Aurelle	B. A.	El Dorado	Arkansas bldg
Campbell, Minerva Madge	L. I.	Fayetteville	420 E. Lafayette
Carden, William Morton	B. A.	Malvern	Buchanan Hall
Carter, Bess	B. A.	Fayetteville	2 mi. N. town
Chandler, Perry Earl	E. E.	Siloam Springs	Gray Hall
Cheever, Louise	L. I.	Richmond	Carnall Hall
Conatser, Raymond Chas.	E. E.	Ozark	Gray Hall
Cook, Benjamin S.	B. A.	Texarkana	Mt. Nord
Corbell, Oscar Martin	L. I.	Charleston	Buchanan Hall
Cravens, Ruby Ruth	L. I.	Fayetteville	106 W. Dickson
Creekmore, Stephen Wheeler	B. A.	Van Buren	23 N. College
Davis, Roy Lee	B. A.	El Paso	Duncan
DeBerry, Henry Drew	E. E.	Bogata, Tex.	Rose Hill
DeBerry, Thomas Arthur	B. A.	Bogata, Tex.	Rose Hill
Dickenson, Benjamin F.	M. E.	Little Rock	213 N. Church
Dorough, Wm. Thomas	B. A.	Little Rock	Buchanan Hall
Droke, Albert H.	C. E.	Fayetteville	
Duke, Sidney Walker	M. E.	Prescott	Mt. Nord
Dyer, Jennie Rebecca	B. A.	Fayetteville	1 mi. N. of town
Eoff, Dennie	L. I.	Harrison	Carnall Hall
Evans, Dan Jackson	C. F.	Gilkey	Buchanan Hall
Feldt, Louise Freda	B. A.	Wellston, Mo.	N. College
Fleeman, Sula	L. I.	Ozark	Arkansas bldg
Fleming, Bert Ray	B. Mi. E.	Hot Springs	McIlroy House
Flinn, Heber	B. A.	Little Rock	629 W. Dickson
Fogelman, John E.	C. E.	Memphis, Tenn.	McIlroy House
Fowles, Roy B.	B. A.	Pine Bluff	Lafayette
Gandhi, Jaswant Rai	M. E.	Multan City, Punjab, India	
			Gray Hall
Garvin, Lula Vance	L. I.	Harrison	Carnall Hall
George, Ira Lester	L. I.	Havana	Gray Hall
Goodwin, William Lynne	B. A.	El Dorado	Gray Hall
Gough, Ivor	B. Mi. E.	Dublin, Ireland	17 Hill
Graham, Bess Jane	L. I.	Springdale	Arkansas bldg
Guynes, Wm. Maurice	E. E.	Siloam Springs	Gray Hall
Hall, Millard Zachary	B. A.	Mulberry	Main bldg
Hall, Milton Guy	B. A.	Monticello	Mrs. Simpson's
Harley, Henry Paul	E. E.	Fayetteville	119 W. Lafayette
Harrell, Nicholas Murphy	E. E.	Lewisville	McIlroy House

Name.	Course.	Post Office.	Boarding Place.
Hatchett, Marvin Pierce	B. A.	Archey	Hill Hall
Hatley, Viola	L. I.	Van Buren	Carnall Hall
Highfill, Robt. David	B. A.	Argenta	Buchanan Hall
Hines, Lillian M.	L. I.	Eureka Springs	Carnall Hall
Hughey, Albert Bryson	C. E.	LeGrange	York
Humphreys, Hugh Harrison	C. E.	Fayetteville	N. College
Hyatt, Chas. Lawrence	B. A.	Marmaduke	Gray Hall
Irwin, James Chandler, Jr.	C. E.	Ft. Smith	Gray Hall
James, Elsie	L. I.	Fayetteville	Mrs. F. C. Cowles'
Jennings, Dennis R.	M. E.	Beebee	Gray Hall
Jennings, Ruth Walton	L. I.	Ozark	Arkansas bldg
Joiner, Jennie McCordle	L. I.	Magnolia	Carnall Hall
Jones, Curtis	E. E.	Little Rock	629 W. Dickson
Kagy, Reuben	B. A.	Alma	Dickson
Ketcham, Annie Thomas	L. I.	Morrilton	Carnall Hall
King, Walter C.	C. E.	Van Buren	611 Leverett
Kinthead, William B.	B. A.	Ft. Smith	2 N. Duncan
Lee, Jessie Page	L. I.	Eureka Springs	East
Lee, Stanley C.	B. A.	Benton	Gregg House
Lephiew, Willis Elvin	B. A.	Dermott	Mrs. Simpson's
Lynch, Ralph V.	B. A.	Clarendon	Gregg House
Maguire, Audie J.	L. I.	Fayetteville	370 Arkansas
Marks, James Alford	B. S. A.	Springdale	Springdale
McCartney, Isabelle	B. A.	Fayetteville	340 College
McClain, Arthur	B. S. C.	Mena	Dickson
McMannus, Annie Trissa	B. A.	Ft. Smith	Carnall Hall
McNeil, John Clinton	E. E.	Magnolia	537 Leverett
Metcalf, Clyde Hill	B. A.	Horation	Buchanan Hall
Miles, Walter Carrigan	B. A.	El Dorado	Gray Hall
Milford, Clinton G.	B. Mi. E.	Ben Lomond	Gray Hall
Moore, Harris C.	C. E.	Fayetteville	W. Dickson
Moore, Wayne H.	B. A.	Hot Springs	213 N. Church
Morehead, Lelia Marene	B. A.	Hot Springs	Carnall Hall
Mustain, Asa Boydstan	L. I.	Tonti-town	Gray Hall
Nathan, Reba	B. A.	Bentonville	Carnall Hall
Nelson, John Prewitt	B. A.	Muskogee, Ok.	125 W. Lafayette
Norman, Oliver Prince	B. S. C.	Hamburg	Washington
Norris, Claire	L. I.	Hamburg	Arkansas bldg
Oates, W.	B. A.	Fayetteville	
Oliver, Nora Cathryn	L. I.	Eureka Springs	122 Block
Oswell, Fred	M. E.	Phatsworth, Cal	Arkansas
Parish, Hugh	B. A.	Newport	
Pope, Sallie	B. A.	Monticello	Arkansas bldg
Powell, Joe Davis	B. A.	Nowata, Okla.	Gregg House
Price, Albert	B. Mi. E.	Pineville, Mo.	McIlroy House
Puntney, James Free	L. I.	Cornerville	Carnall Hall
Rennick, Roy Lee	M. E.	Fayetteville	Gray Hall
Rettig, John Wilson	C. E.	Bentonville	Gray Hall
Rhea, Powell M.	B. Mi. E.	Fayetteville	McIlroy House

Name.	Course.	Post Office.	Boarding Place.
Rice, Jeff	B. A.	Bentonville	Gray Hall
Richards, Wanda Thomas	L. I.	Fayetteville	300 W. Center
Rorex, Sam	B. A.	Dardanelle	640 Leverett
Rorie, George Chilles	B. A.	Retreat	Buchanan Hall
Sample, Charley M.	B. A.	El Dorado	Gray Hall
Sankee, Patti	B. A.	Fayetteville	369 N. Gregg
Savage, Dwight L.	B. A.	Carlisle	Buchanan Hall
Seal, Agnes Colene	B. A.	Lowell	Carnall Hall
Sedwick, Benj. Franklin	C. E.	Fayetteville	324 St. Charles
Simpson, Mrs. W. E.	L. I.	Fayetteville	
Sims, Mary J.	B. A.	Harrison	Carnall Hall
Smith, Guy Edwin	B. A.	Hamburg	Gray Hall
Smith, Myron Francis	E. E.	DeQueen	Gray Hall
Smith, William Kate	B. A.	Malvern	Gray Hall
Smith, Roy Dallas	B. A.	Yellville	N. College
Smith, Raymond Guy	E. E.	Charleston	Buchanan Hall
Starnes, John Threkland	B. S. A.	Weldon	Gray Hall
Stone, Mattie	L. I.	Waldron	Carnall Hall
Thomas, Fannie	L. I.	Magnolia	603 Leverett
Thompson, Ethel May	B. A.	Gentry	425 N. College
Thompson, Sam A.	B. A.	Stephens	763 W. Dickson
Tompkins, Chas. H.	B. A.	Prescott	McIlroy House
Tovey, Edwin Claire	C. E.	Galesburg, Ill.	616 Ida
Utley, Frances	L. I.	Hobart	Carnall Hall
Vaughan, Rosebud Mabel	L. I.	Lockesburg	Carnall Hall
Veazey, Julia Anna	B. A.	Fayetteville	
Wallace, Lillian Mae	B. A.	Ft. Smith	Arkansas bldg
Warner, Cecil R.	B. A.	Ft. Smith	753 W. Dickson
Wasson, Joseph Houston	C. E.	Smithville	Buchanan Hall
Wilder, Solon Franklin	B. A.	Ft. Smith	Gray Hall
Williams, Walter Q.	M. E.	Brentwood	820 Douglass
Willson, Thos. Reed	C. E.	Ola	763 W. Dickson
Wilson, Jim	B. A.	Ft. Smith	Arkansas bldg
Wolf, Guy Walker	B. A.	Yellville	Gray Hall
Wood, Roy Gilbert	B. A.	Ft. Smith	Gray Hall
Wright, Eda Aramenta	L. I.	Fayetteville	
Yokum, Henry Scott	B. A.	El Dorado	Gray Hall
			Total, 141.

## Freshman.

Adams, Ralph	B. A.	Malvern	E. Dickson
Ambrose, Wiley Harvey	E. E.	McAlester, Okla.	Gray Hall
Andrews, Allen	B. Mi. E.	Siloam Springs	
Armitage, Joseph Gordon	B. A.	Harrison	Buchanan Hall
Atkinson, Wm. Henry	B. A.	Bodcaw	
Austin, Roy Moore	B. A.	Charleston	Buchanan Hall
Backarack, Edgar	B. A.	Clarendon	Gray Hall
Baker, R. Kate	B. A.	Pocahontas	136 Hill
Bancroft, Donald H	E. E.	Hot Springs	

Name.	Course.	Post Office.	Boarding Place.
Barnes, Jno. Kendall	B. S. A.	Hamburg	15 N. Duncan
Barry, Wm. T.	B. A.	Fayetteville	
Barton, Wm. Harvey	B. A.	Cove	Gray Hall
Bates, Jno. Windson	B. A.	Bentonville	Gray Hall
Baugh, Jno. M.	E. E.	Junet	Gray Hall
Baxendale, John	M. E.	Lehigh, Okla.	Buchanan Hall
Belts, Mary Florence	B. A.	Springdale	346 St. Charles
Blackford, Mary	B. A.	Fayetteville	424 Willow
Blackshire, Jenny Lacy	L. I.	Fayetteville	636 W. Maple
Blackshire, Lena Ellis	L. I.	Fayetteville	636 W. Maple
Blackshire, Lochie	L. I.	Fayetteville	636 W. Maple
Blakeley, Ray	B. A.	Hartman	Gray Hall
Bloom, Sol M.	B. A.	Pine Bluff	Bates'
Boales, Elmer Harris	B. A.	Clarendon	18 E. Dickson
Bradford, Clarence Grey	L. I.	West Point	Buchanan Hall
Bradford, Wm. Ernest	B. A.	Haynes	Buchanan Hall
Bradley, Herbert Duval	E. E.	Ft. Smith	Gray Hall
Bragg, Peter Newport	B. A.	Chidester	Gray Hall
Brewster, Chas. Robert	B. A.	Harrisburg	W. E. Simpson's
Bringman, Fred William	E. E.	Pine Bluff	232 N. E.
Brock, William K.	C. E.	Bentonville	203 W. Dickson
Brown, Horace Russell	B. S. A.	Little Rock	213 N. Church
Bryant, Claud Herbert	B. A.	Osceola	Mrs. Pulliam's
Bullock, T. J.	L. I.	Dover	Gray Hall
Byler, Chas. Elbert	B. A.	Lake City	Buchanan Hall
Carnall, Bonta J.	B. Mi. E.	Ft. Smith	Gray Hall
Case, Herbert Neil	E. E.	Mountain View	2 N. Duncan
Caudle, Reuben Dye	B. A.	Scottsville	Gray Hall
Cheever, Edwin Head	B. A.	Richmond	Gray Hall
Cochrane, Pearl Geneva	L. I.	Paris	Carnall Hall
Collins, Alice	B. A.	DeQueen	Carnall Hall
Collins, James Homer	B. Cement E.	Ft. Smith	720 W. Maple
Couch, L. Nelle	L. I.	Magnolia	Carnall Hall
Cook, James D.	B. A.	Texarkana	Mt. Nord
Cooper, Joe W.	B. A.	Malvern	811 W. Dickson
Crawford, J. Tallie	B. A.	Prairie Grove	Mrs. Martin's
Cypert, Alfred Boyd	B. A.	Little Rock	Gray Hall
Darr, Ira R.	E. E.	Atkins	740 W. Maple
Davis, Mabel Eloise	B. A.	Fayetteville	1004 W Center
Davis, Mabel	L. I.	Fayetteville	420 Arkansas
Davis, Wm. Cleveland	B. A.	Greenwood	Buchanan Hall
Deane, Madeline Anderson	L. I.	Fayetteville	R. F. D. No. 2
DeLamar, Frank S.	B. A.	Dalark	Gray Hall
DeLongy, Harold Percival	B. A.	Mena	523 Leverett
DeRoulhac, Joseph Blount	B. A.	Fayetteville	763 W. Dickson
Doherty, James Edward	B. A.	Newport	
Douglass, Allen Manning	B. S. C.	Senath, Mo.	Gregg House
Douglass, Chas. Howard	E. E.	Pocahontas	163 Hill
Douglass, Elridge Parish	E. E.	Helena	Gray Hall



Name.	Course.	Post Office.	Boarding Place.
Dunn, Bernard Joseph	C. E.	Ft. Smith	Gray Hall
Eakin, Mary	L. I.	Hope	Carnall Hall
Earnest, Albert N.	B. S. C.	Ft. Gibson, Okla	627 Leverett
Edsell, Aurell Leonard	E. E.	Siloam Springs	W. Dickson
Ellis, Earl	M. E.	Fayetteville	College
Ellis, Robert Sidney	L. I.	Cardonia, Tenn.	Garland
Eoff, William Carl	L. I.	Bellefonte	McCoy's
Fogg, Joseph Peevey	L. I.	Forrest City	Gray Hall
Fulkes, Henry G.	E. E.	Ozark	Buchanan Hall
George, Hosea Nita	L. I.	Hamburg	Carnall Hall
George, Raymond	B. A.	Fayetteville	J. B. George's
Gillespie, Vivian	B. A.	Osceola	Carnall Hall
Gladson, Hazel Wade	B. A.	Fayetteville	820 W. Maple
Glass, Myrna	L. I.	Fayetteville	
Glass, Thomas Edgar	E. E.	Fayetteville	125 W. Lafayette
Goodrum, John Claibourne	B. A.	England	Hill
Graham, Elbert Sylvester	L. I.	Springdale	Ballard's
Green, Thomas Andrew	L. I.	Mineral Springs	Buchanan Hall
Greig, Annie E.	L. I.	Van Buren	Carnall Hall
Guthrie, Adam, Jr.	B. A.	Prescott	303 W. Dickson
Hall, Sarah Irene	L. I.	Holly Grove	Carnall Hall
Hamburg, Walter	B. A.	Lonoke	300 W. Center
Harlan, Earle T.	E. E.	Searcy	Arkansas
Harper, Ethel L.	B. A.	Prairie Grove	99 Hill
Harrell, Virgil Cherry	B. A.	Tillar	Mrs. Simpson's
Harris, Eutha	B. A.	Fayetteville	305 Washington
Harrison, Jere Fairchild	E. E.	Muskogee, Okla.	358 Arkansas
Henry, John Decatur	L. I.	Dierks	
Highfill, Herbert H.	B. A.	Paragould	327 Leverett
Hill, Ethel	B. A.	Charleston	Gray
Hill, Emma Frances	B. A.	Fayetteville	
Hinchee, Lee McKissick	B. A.	Carlisle	Gray Hall
Hirst, Claude Marvin	B. A.	Morris	Buchanan Hall
Hogue, Effa Lydia	B. A.	Fayetteville	School
Holloway, Claudius V.	B. A.	Lonoke	17 Hill
Holt, Joe Berry	B. A.	Harrison	Lafayette
Hughes, Jack Lewis	L. I.	Waldron	Hill
Hughey, Isaac Jerome	E. E.	Atkins	Gray Hall
Husian, Mohammed	C. E.	Gupamola, Punjab, India	
			Gray Hall
Hutchens, Robert Morris	B. A.	Little Rock	Gray Hall
Irving, Arthur	M. E.	Morrilton	803 W. Dickson
Johnson, Chas. Atkins	B. A.	Paris	Buchanan Hall
Johnson, Ector Ralph	B. A.	Augusta	Gray Hall
Johnson, Webster Decatur	B. A.	Marianna	717 W. Dickson
Joiner, Joseph Wilson	B. A.	Magnolia	Gray Hall
Kantz, Nelle Welch	L. I.	Fayetteville	
Keesee, Thomas Woodfin	B. A.	Helena	753 W. Dickson
Kelton, Jannie	L. I.	Fayetteville	1 mile S. town

Name.	Course.	Post Office.	Boarding Place.
Khosla, Ram Kisham	M. E.	Ferozpur, Punjab, India	Gray Hall
Kilgore, Pearl	L. I.	Fayetteville	
Kilpatrick, Lucy Lacy	L. I.	Malvern	Carnall Hall
King, Arthur	C. E.	Van Buren	611 Leverett
King, Damon Lee	E. E.	Roswell, N. M.	Gray Hall
King, Harry	B. A.	Van Buren	611 Leverett
Kirby, Alex Crump	B. A.	Harrison	Lafayette
Kittrell, Edwin Newton	E. E.	Hamburg	Duncan
Knight, Joseph Daniel	L. I.	Pine Grove	McAdams'
Knighton, Nina	L. I.	Hope	Carnall Hall
Knott, Nola Mae	B. A.	Fayetteville	15 E. Spring
Kunz, Clifford H.	B. M. E.	Fayetteville	
Laster, Donald	B. A.	Ft. Smith	224 Church
Laughinghouse, Newman R.	E. E.	Forrest City	Leverett
Ledbetter, Raymond L.	C. E.	Junction City	Gray Hall
Lea, Roland Adolphus	E. E.	Fayetteville	229 N. College
Lee, John Riley	L. I.	Star City	Mrs. Ballard's
Lenker, Leslie E.	E. E.	Burt	16 Ida
Lindsey, Grover S.	B. A.	Bentonville	300 W. Center
Longino, Luther Alvin	E. E.	Magnolia	206 W. Dickson
Malone, William Forgey	B. A.	Jonesboro	Gray Hall
Mann, James Hervey	B. A.	Pine Bluff	Bates'
Mardis, Percy Preston	C. E.	Fayetteville	Rolston
McAlexander, Olin Giles	B. A.	Marianna	Gray Hall
McBride, Edgar Monroe	B. A.	Havana	1004 W. Center
McCain, Dolph	L. I.	Monticello	Arkansas Bldg.
McCartney, Ralph Lee	E. E.	Fayetteville	E. Spring
McClanahan, Lula	L. I.	Hope	Carnall Hall
McClure, Robt. Dabney	B. A.	Lincoln	Duncan
McCoy, Bess Celia	B. A.	Fayetteville	N. University
McCoy, Jessie Marie	B. A.	Fayetteville	N. University
McGaugh, Callie	B. A.	Gentry	Carnall Hall
McGill, Samuel Davis	M. W.	Chidester	Buchanan Hall
McGraw, Tom Dan	B. S. A.	Altus	Bates'
McKean, Harry Clum	B. A.	DeQueen	
McKinney, Otho Fenton	E. E.	Augusta	Goddard's
Milam, David Walker	B. S. C.	Fayetteville	W. Dickson
Milam, Edna Mae	B. S.	Fayetteville	W. Dickson
Milwee, Robert Miles	E. E.	Horatio	Gray Hall
Merriwether, Lilbourn H.	B. A.	Paragould	Gray Hall
Moody, William Frank	E. E.	Rison	Gray Hall
Moore, Charles Adolphus	B. A.	Dover	Gray Hall
Moore, James G.	B. A.	Sulphur Rock	Mrs. Pearson's
Moore, Norman Price	B. A.	Van Buren	23 N. College
Moore, Sam Williams	C. E.	Cabot	Buchanan Hall
Moore, Susie O.	B. A.	Ft. Smith	Arkansas Bldg.
Morris, Benjamin B.	B. A.	England	17 Hill
Morris, Geo. Edward	B. A.	England	17 Hill

Name.	Course.	Post Office.	Boarding Place.
Morrison, A. B.	M. E.	Poteau, Okla.	
Muller, Claude Sebastian	M. E.	Little Rock	Center
Nichols, Bernard	B. A.	Forrest City	Gray Hall
Nichols, Robin H.	E. E.	Parkdale	356 College
Nicholson, Herbert Morris	B. A.	Tahlequah, Okla.	
			Mrs. Blackshire's
Northum, Ted	C. E.	Charleston	Buchanan Hall
Old, Martha Louise	L. I.	Nashville	Carnall Hall
Overholt, James Irwin	B. A.	Fayetteville	½ mile N. town
Overholt, Margaret	L. I.	Fayetteville	½ mile N. town
Oxford, Chas Edward	C. E.	Stamps	Gray Hall
Parker, Robert H.	B. A.	Vesta	Gray Hall
Paul, Claude Willis	E. E.	Ft. Smith	537 Leverett
Pearson, Stella Rowena	L. I.	Fayetteville	537 Leverett
Penix, William Roy	B. A.	Jonesboro	Gray Hall
Pettit, Henry Claude	B. A.	Harrison	Gray Hall
Pettigrew, Lucile A.	B. A.	Charleston	Carnall Hall
Philip, Stanley	B. S. A.	Ft. Pierre, S. D.	Gray Hall
Pollard, Martha May	L. I.	Gaither	Carnall Hall
Prall, Beatrice	L. I.	Hope	Carnall Hall
Protho, Ernest Whitfield	B. S. A.	Frank	Gray Hall
Pulliam, Lucy	L. I.	Osceola	Carnall Hall
Purcell, Walter Ray	E. E.	Warren	Gray Hall
Pyeatt, Wallace	C. E.	Prairie Grove	Gray Hall
Redding, Laura Abbott	L. I.	Russellville	Carnall Hall
Reed, Ollie Margaret	L. I.	Springdale	446 St. Charles
Reed, W. Bates	B. A.	Fayetteville	304 College
Renick, Ethel Louise	L. I.	Fayetteville	
Roark, Granville W., Jr.	B. A.	Franklin, Ky.	324 College
Robertson, Arthur	B. A.	Wynne	763 Dickson
Rogers, Lee Hugh	E. E.	Prairie Grove	Buchanan Hall
Rothwell, Benj. Harrison	C. E.	Denver, Col.	N. Maple
Rye, Vim X.	C. E.	Russellville	Gray Hall
Sanders, David Thomas	B. A.	Dierks	Sanders'
Schoolfield, Eunice	B. A.	Fayetteville	
Sedwick, Bessie N.	L. I.	Fayetteville	
Shane, Jno. Cecil	B. A.	Paragould	Carnall Hall
Shaver, Robert Benj.	B. A.	Mena	523 Leverett
Simpson, John Clifton	B. S. C.	Hamburg	15 N. Duncan
Slaughter, Dessa	L. I.	Springdale	Locust
Smith, Lucille Isabelle	B. A.	Fayetteville	114 S. College
Smith, Mertie Evelyn	L. I.	Sidney	Carnall Hall
Snell, Edith	B. A.	Harrison	Leverett
Southworth, James Richmond	B. S. A.	Fayetteville	
Sparks, Claud Lee	B. A.	Pine Bluff	367 Gregg
Speaks, Sam Trigg	C. E.	Bemotit, Miss.	616 Ida
Spencer, Ferrell Ford	B. A.	Monticello	Lafayette
Spikes, Wm. Franklin	B. A.	Pocahontas	736 Hill
Spivey, John Willie	B. S. C.	Hamburg	15 N. Duncan

Name.	Course.	Post Office.	Boarding Place.
Stallings, Robert	C. E.	Morrilton	5 Spring
Stout, Sam Rodman	B. A.	Rogers	Gray Hall
Stover, Don Alonzo	E. E.	Rogers	521 College
Strider, Caroline Lee	B. A.	Cotter	Carnall Hall
Summers, Beatrice	B. A.	Pocahontas	138 Hill
Taff, Nollie Olin	L. I.	Waldron	Buchanan Hall
Taylor, John Edwin	E. E.	Blevins	Hill Hall
Thomas, Augusta	L. I.	Calico Rock	Gray Hall
Thomas, Maude	L. I.	Magnolia	603 Leverett
Thomas, Oliver Chaney	C. E.	DeQueen	Buchanan Hall
Tilley, Robert Floyd	E. E.	Fayetteville	15 N. Duncan
Todhunter, Lula	L. I.	Fayetteville	300 W. Center
Townsend, Jennins Myron	M. E.	Hot Springs	W. Dickson
Tyson, John Ardis	L. I.	Atkins	Buchanan Hall
Vann, John Si	B. Mi. E.	Fayetteville	N. Washington
Vickers, Roy H.	B. S. C.	Fayetteville	W. Scott
Walls, Shepherd R.	B. A.	Lonoke	300 W. Center
Ward, Elmer L. Blair		Ida Grove, Ia.	Gray Hall
Watkins, Maude Ella	L. I.	Harrison	Carnall Hall
Watkins, Wesley	E. E.	Harrison	Gray Hall
Webb, Joseph Watson	L. I.	Martinville	Garland
Welch, Erastus B	C. E.	Mena	Buchanan Hall
Welch, Sam Earl	B. A.	Talihina, Okla.	
Whitty, Anna Stella	L. I.	Fayetteville	621 Leverett
Whitty, Emily Nora	L. I.	Fayetteville	621 Leverett
Wiggins, Charles E	L. I.	Hobart	Gray Hall
Wilbanks, Nelle Clara	L. I.	Argenta	Carnall Hall
Wilkes, Wm. Norman	B. A.	Augusta	Gray Hall
Willey, George Miles	B. A.	Helena	E. Dickson
Williams, James P.	B. A.	Fayetteville	348 Washington
Williams, Jay	C. E.	Clarendon	Gray Hall
Williams, Maurice	B. A.	Lono	Hill Hall
Williams, Rufus Edwin	B. A.	DeQueen	Gray Hall
Williams, Thomas Jefferson	B. A.	Hope	300 W. Center
Willis, John Edgar	M. E.	Little Rock	Rose Hill
Wohra, Hai Das	M. E.	Paliala City, Punjab, India	Hill Hall
Wolf, Bess Pauline	B. A.	Fayetteville	Mt. Nord
Wood, Roy Kellum	B. A.	Cabot	Buchanan Hall
Wood, Ruth	B. A.	Fayetteville	306 Washington
Woody, Lemuel Dale	B. A.	Fayetteville	364 Church
Woody, William Watson	B. A.	Fayetteville	346 St. Charles
Young, William G.	B. A.	Jonesboro	Gray Hall
			Total, 244.

## Special.

Bills, Alvin Forest	Sulphur Springs	W. Dickson
Bullock, Wm. Lafayette	Ft. Smith	213 Church
Carruth, Robert Hill	Warren	Gray Hall
Clark, C. Louise	Fayetteville	309 W. Center



Name.	Post Office.	Boarding Place.
Coffey, Mary Ruby	Fayetteville	629 W. Dickson
Cook, Robert G.	Texarkana	Mt. Nord
Cotnam, Charles	Little Rock	
Davis, Henry A.	Fayetteville	
Greever, Mrs. Garland	Fayetteville	Arkansas
Klingensmith, Wm. Roger	Ft. Smith	Gray Hall
Ledgerwood, Vernon S.	Hot Springs	629 W. Dickson
Leigh, William W.	Little Rock	College
Leverett, Ena	Fayetteville	
Liddell, Robert Finis	Rector	435 Washington
Machen, John P.	Magnolia	Mrs. Plummers'
Madding, James Eugene	Pine Bluff	367 Gregg
Martin, Melbourne Miller	Little Rock	W. Dickson
Martin, Otto V.	Ozark	Gray Hall
McIlroy, Wm. Haden	Fayetteville	
McLaughlin, Leo Patrick	Hot Springs	629 W. Dickson
Morrow, Mrs. H. E.	Fayetteville	W. Maple
Neelly, Irma	Fayetteville	213 Church
Orto, Wilbur	Pine Bluff	Bates'
Plummer, James Robert	Fayetteville	600 Whitham
Price, Cathryn	Keota, Okla.	Arkansas
Reed, Ollie Margaret	Springdale	446 St. Charles
Sheffield, Howard Clinton	Lewisville	Buchanan Hall
Starkey, John Oscar	Eureka Springs	W. Dickson
Stroup, Almon	Fayetteville	Arkansas
Tucker, Marshall Ernest	Fayetteville	
Umholtz, Amos J.	Tum	17 Hill
Waits, William	Mulberry	Mrs. Ellis'
White, Ophelia	Fayetteville	Block & Dickson
Wight, Athur Edwin	Fayetteville	
		Total, 34.

## THE CONSERVATORY OF MUSIC AND ART.

NOTE.—The following list contains the names of those students whose major subject is taught in the Conservatory of Music and Art. The total number of students enrolled in the classes of this department in 1908-09 is 439.

Name.	Post Office.	Boarding Place.
Brown, Jessie H.	Chant, Okla	Arkansas Bldg.
Bryan, Maud E.	Vian, Okla.	Carnall Hall
Cannon, Margaret	Fayetteville	Lafayette
Compton, Helen	Wing	Carnall Hall
Conner, Verna	Fayetteville	314 Washington
Eno, Hazel	Crossas	533 Willow
Giddings, Jean	Springdale	
Gilbreath, Lucile	Fayetteville	203 N. E
Gregg, Mildred	Fayetteville	129 E. Dickson
Hall, Virginia	Fayetteville	212 East

Name.	Post Office.	Boarding Place.
Harrison, Ellen	Morrilton	Carnall Hall
Hayden, A.	Beaumont, Texas	
Herring, Beulah	Fayetteville	Highland
Herring, Willard	Fayetteville	Highland
Horton, Lucile	Mountain Home	Carnall Hall
Kilpatrick, Charlotte	Malvern	Carnall Hall
Kilpatrick, Roberta	Malvern	Carnall Hall
Mardis, Lessie	Clarksville	Rolston
Mastin, Eleanor	Fayetteville	
Milam, Evelyn	Fayetteville	W. Dickson
Mock, Genevieve	Fayetteville	Mt. Nord
Mullins, Linnie	Texarkana	11 W. Dickson
Norbury, Virginia	Fayetteville	117 College
Pape, Sophia	Van Buren	23 College
Pitts, Corinna	Russellville	Carnall Hall
Ramsey, Adele	Fayetteville	324 College
Ramsey, Gene	Fayetteville	324 College
Reynolds, Ruth	Fayetteville	814 W. Maple
Stuckey, Helen	Fayetteville	Ida
Stuckey, Margaret	Fayetteville	Ida
Stuckey, Willie	Fayetteville	Ida
Tilley, Irene	Fayetteville	15 N. Duncan
Tillman, Kathleen	Fayetteville	421 N. College
Trimble, Nelle	Lonoke	Carnall Hall
Veazey, Mildred	Fayetteville	540 Whitham
Veazey, Wilma	Fayetteville	540 Whitham
Weaver, Louise	Rogers	Carnall Hall
Willson, Leah Mary	Ola	Arkansas & Ida
		Total, 38.

## SHORT COURSE IN ELECTRICAL ENGINEERING.

### First Year

Name.	Post Office.	Boarding Place.
Baker, Louis Spaulding	Fayetteville	523 Washington
Brown, Robert Lewis	Fayetteville	
Burgin, William Dickson	Fayetteville	224 W. Meadow
Check, Ben	Pine Bluff	Buchanan Hall
Cornwell, Wm. Glenn	Fayetteville	711 W. Dickson
Douglass, Elridge Parish	Helena	Gray Hall
Dowell, Aloysens Swan	Walnut Ridge	
Hooper, Edgar Kenneth	Fayetteville	627 Leverett
Huggins, Prichard Thurnan	Ozark	Gray Hall
Lee, Joseph M.	Dallas, Tex.	Gray Hall
Martin, Robert	Fayetteville	521 Leverett
McKinlay, Peter Gillespie	Garfield	Gray Hall
Miller, Wm. Harper	Pocahontas	136 Hill
Moore, Nathan Dowell, Jr.	Swifton	Gray Hall
Northum, Ted	Charleston	Buchanan Hall

Name.	Post Office.	Boarding Place.
Orrick, Earl A	Booneville	Gray Hall
Pace, Edgar Jno	Bentonville	300 W. Center
Pemberton, Harold Jennings	Scott	W. Dickson
Spargo, Stephen Dudley	Hot Springs	Buchanan Hall
Tatum, Granville W.	Booneville	Gray Hall
Waugh, Chas. Merrewether	Rothville, Mo.	
Wilkerson, Sam C.	Morrilton	803 W. Dickson

## Second Year

Baum, Elias Julius	Fayetteville	337 N. College
Carter, Witt	Durham	702 W. Maple
Herbert, Harry Lee	Greenwood	Buchanan Hall
Pierce, Robert James	Dardanelle	304 Center
Wheat, Ila	Lonoke	300 W. Center
Wiggins, Presley Ricks	Fayetteville	620 Ida
		Total, 28.

## Short Course in Mechanical Engineering.

Name.	Post Office.	Boarding Place.
Chambers, James Henry	Bauxite	Gray Hall
Greenwood, Wm. C.	Paris	Gray Hall
McPherson, Ralph Russell	Stuttgart	Buchanan Hall
Porcell, Earl Wakeman	Tampa, Fla.	Buchanan Hall
Rust, Elmor	Texarkana	727 Douglass
Sedgwick, Richard C.	Fayetteville	342 St. Charles
Valega, Charles Henry	El Dorado	Gray Hall
Wilkinson, LeRoy Pittman	Fayetteville	E. Dickson
Williams, E. N.		
		Total, 9.

## THE PREPARATORY SCHOOL.

*Abbreviations.*—A., Arts course, leading to the B. A. course; E., Engineering course, leading to the Mechanical, Civil and Electrical Engineering courses; T., Teacher's course; Sp., Special course; C., leading to the course in the Conservatory of Music and Arts; Agr., leading to the course in Agriculture.

## Second Year Class.

Name.	Course.	Post Office.	Boarding Place.
Alewine, Oscar M.	A.	Atkins	Dormitory
Allen, Sarah	C.	Vian, Okla.	Carnall Hall
Ambrose, Roscoe	A.	Fayetteville	Gunter Addition
Andrews, John A.	E.	Siloam Springs	Mrs. Crenshaw's
Armstrong, Roy Broyles	E.	Fayetteville	Van Buren
Baker, Rufus	A.	Pocahontas	136 Hill
Ball, Samuel Millard	A.	Ravenden	

Name.	Course.	Post Office.	Boarding Place.
Billingsley, Andy Lee	A.	Prescott	303 Dickson
Bilyeu, Robert A.	A.	Lead Hill	Dormitory
Black, Ernest H.	A.	Yellville	
Black, Jewell H.	A.	Yellville	
Blackshire, Dean	C.	Fayetteville	Vanderventer
Blackshire, Lochie Dale	L. I.	Fayetteville	Vanderventer
Boner, Robert R.	E.	Centerton	Mrs. Borders'
Brown, Chas. Edward	A.	Rison	Dormitory
Bryant, Chas. Herbert	A.	Osceola	628 Maple
Bullock, Thomas J.	L. I.	Dover	Dormitory
Burkholter, Lawrence R.	L. I.	Higginson	Dormitory
Butler, Lucy	A.	Fayetteville	214 W. Dickson
Byrd, James Wilson	E.	Smackover	Dormitory
Cann, Henry E.	E.	Shreveport, La.	111 East
Carter, George Benjamin	A.	Rison	Dormitory
Cartey, Von	A.	Durham	702 W. Maple
Caudle, William Clenric	A.	Greenwood	640 Leverett
Chambers, Thomas Hamilton	E.	Biggsville	Joe Webb's
Clark, Urban Ruben	A.	Fordyce	523 Leverett
Clarke, Ely Hardy	A.	Goshen	521 N. College
Coker, Raymond Wesley	L. I.	Kelso	Dormitory
Cole, Leon R.	E.	Sand Lake, Mich.	Cowles'
Cook, E. T.	E.	Fayetteville	West of town
Cotrell, Theodore Nathaniel	E.	Stilwell, Okla.	727 Douglass
Crippin, Orilla	A.	Fayetteville	Church
Davis, Lilah France	A.	Broughton, Ill.	Carnall Hall
Davis, Lucile	A.	Lowell	Carnall Hall
Davis, Lucy	A.	Harrisburg	Carnall Hall
Davis, Robert Lee	A.	Larkin	Mrs. Austin's
Decker, Kivkivia Leona	A.	Fayetteville	R. F. D. No. 2
Dever, Dixie Dupree	E.	Springdale	537 Leverett
Dinwiddie, James Anthony	E.	Fayetteville	728 Maple
Dodson, Elija Goss	A.	Hope	Mrs. Simpson's
Driver, Cooper	E.	Osceola	Mrs. Pulliam's
Earl, Chugraime Ralph	A.	Rector	435 Washington
Easley, Clyde DeWitt	A.	Stigler, Okla.	Capt. Barr's
Eason, Arthur	E.	Fayetteville	43 Gregg
Ederington, John T.	E.	Warren	Dormitory
Ellington, Orin	E.	Magazine	Garland
Ellis, George	A.	Hamburg	15 N. Duncan
Farrar, Frank	A.	Springdale	
Fontain, Dave Lewis	A.	Alma	
Frederick Duke	A.	Mena	Dormitory
Fuqua, Walter Lawrence	A.	DeWitt	Dormitory
George, Grover	E.	Fayetteville	City Park Add'n
Gilliland, Ruth Francis	A.	Knobel	Dormitory
Gillispie, Vergie Euola	L. I.	Osceola	Dormitory
Goodwin, Frank	E.	Smackover	Douglass
Goss, Alpha	E.	Fayetteville	217 W. Meadow



Name.	Course.	Post Office.	Boarding Place.
Greathouse, Frank Braxton	A.	Johnson	227 N. School
Greathouse, William David	Agr.	Johnson	227 N. School
Greig, Star	E.	Van Buren	Dormitory
Hall, Samuel Laban	E.	Turner	Dormitory
Hamilton, Samuel Godfrey	A.	Emmet	N. West
Hannah, Mamie	L. I.	Fayetteville	6 Center
Harris, Fanny May	L. I.	Fayetteville	R. F. D. No. 2
Harris, Martha A.	A.	Fayetteville	305 Washington
Harrison, Allen Walter	A.	Farmington	Mrs. Ross'
Hedrick, Grace	L. I.	Fayetteville	N. W. University
Henry, Elbert Augusta	A.	Jacksonville	Dormitory
Herring, Beulah	C.	Fayetteville	Highland
Hilt, George W.	E.	Fayetteville	213 Lafayette
Hilt, Paul Harmon	A.	Fayetteville	213 Lafayette
Hilton Lilburn Lewis	A.	Fayetteville	R. F. D. No. 2
Hinton, Jesse James	A.	Stamps	Dormitory
Holbrook, Homer Harry	A.	Huntington	108 East
Holcomb, Lillian	A.	Springdale	Carnall Hall
Holtzclaw, Herby Fuler	A.	Vineyard	Mrs. Austin's
Horton, Ralph	A.	Guy	Steve Bates'
Hotchkiss, Henry Peel	A.	Duncan, Okla.	Dormitory
Hudson, Inez	A.	Fayetteville	102 Block
Hudson, Raymond	A.	Moreland	Dormitory
Hunter, Earnest	E.	Atkins	Dormitory
Hurst, Jefferson Davis	A.	Fayetteville	210 Watson
Hyde, Blanch	A.	Monticello	Carnall Hall
Jacks, Raymond Dowell	A.	Marianna	Dormitory
Jackson, Alice Ruth	L. I.	Fayetteville	
Jackson, Chester Brooks	A.	Malvern	102 N. East
James, Ray Ballard	A.	Fayetteville	North Town
Johnson, Cora	L. I.	Coal Dale	623 W. Dickson
Jones, Otis	A.	Leola	Dormitory
Keeton, William T.	A.	Swifton	Mrs. Webb's
Kelton, Fannie	L. I.	Fayetteville	South of Square
Knight, Ralph	E.	Broken Arrow, Okla.	Dormitory
Kuntz, Clifford	E.	Fayetteville	
Landron, Belle	A.	Fayetteville	Church
Lane, Ora Helen	L. I.	Springdale	N. Block
Langston, Zora Lee	L. I.	Umpire	Carnall Hall
Leake, Annie	A.	Fayetteville	228 W. Maple
Lee, William	L. I.	S. McAlester, Okla.	Frisco Hotel
Leverett, Fred Percival	E.	Fayetteville	644 W. Maple
Leverett, Madge	A.	Fayetteville	644 W. Maple
Lewis, John Marion	C.	Fayetteville	623 W. Dickson
Lilly, Clara	L. I.	Harrison	217 Sutton
Little, Thomas Eugene	E.	Greenwood	Dormitory
Lucas, Julia	C.	Fayetteville	W. Maple
McAuley, Robert F.	E.	Weldon	Dormitory
McCain, John Erwin	A.	Gum Log	Dormitory

Name.	Course.	Post Office.	Boarding Place.
McCartney, Ruth	A.	Fayetteville	340 College
McCauley, Gordon Bain	A.	Fayetteville	York
McCulloch, Ben	A.	Little Rock	335 College
McDearmon, George W.	A.	Weldon	Dormitory
McDearmon, Nora	C.	Weldon	Carnall Hall
McFarlane, Harris	E.	Greenwood	202 W. Lafayette
McFarlane, Marguerite	A.	Greenwood	202 W. Lafayette
McFarlane, William Dodridge	A.	Greenwood	202 W. Lafayette
McGehee, Tate	A.	Sneede	J. R. Parks'
McKewen, W. J.	A.	McAlver	112 Hill
McLain, Evelyn	L. I.	Newport	Carnall Hall
Macrae, Shelda	A.	Garden City, Mo.	Carnall Hall
Magness, Beacher	A.	Hartford	N. Leverett
Magness, William Auley	A.	Hartford	N. Leverett
Martensen, Christopher C.	A.	Hazen	Mrs. Simpson's
Meade, Ransom Lee	A.	Russellville	640 Leverett
Medearis, Park Hines	A.	Westville, Okla.	Gilbert House
Melton, Arch	E.	Alix	Dormitory
Menard, Bonnie	A.	Nady	727 Douglass
Milligan, Hazel	A.	Fayetteville	Dr. Vaughan's
Miner, Chas. Lufkin	A.	Fayetteville	703 W. Dickson
Mitchell, Bess Hilda	A.	Grubbs	Carnall Hall
Morris, Lizzie Francis	L. I.	Centerton	814 Maple
Morris, Vinie	L. I.	Centerton	814 Maple
Morton, Winnifred	A.	Fayetteville	
Murphy, Carlton Abbott	A.	Strong	Dormitory
Murphy, William Harrison	A.	Swifton	Dormitory
Neelly, Hallie Talbert	C.	Fayetteville	213 Church
Norwood, Charles Miles	A.	Stamps	Dormitory
Oliver, Grace Maude	S.	Eureka Springs	122 Block
Oliver, Phares Owen	A.	Hallett, Okla.	Arkansas Bldg.
Overton, William Robert	E.	Piggott	Vanderventer
Pack, Homer Dodds	E.	Lowell	Dormitory
Parks, John Dryden	E.	Fayetteville	415 N. College
Parks, Lizzie	L. I.	Fayetteville	L. L. Hilton's
Parsons, Lloyd Chandler	A.	Fayetteville	18 E. Meadow
Payne, Richard Hammond	E.	Forrest City	753 Dickson
Pearsons, Stella Rowena	L. I.	Fayetteville	537 Leverett
Pennington, Bessie	L. I.	Berryville	Carnall Hall
Perkins, Elizabeth Clyde	A.	Fayetteville	West of University
Petross, Irma	A.	Springdale	Arkansas Bldg.
Phillips, Josephine	S.	Nowata, Okla.	Carnall Hall
Porter, Lee Vernon	Agr.	Fayetteville	N. W. of town
Pratt, Marguerite Joy	C.	Fayetteville	North Town
Pulliam, Henry Nelson	A.	Fayetteville	Dormitory
Ralph, James Lawrence	A.	Grand Lake	Mrs. Simpson's
Ray, Charles Herbert	L. I.	Griffithville	Dormitory
Reed, Jack	E.	Fayetteville	N. Willow
Richmond, Holman	A.	Ft. Smith	523 Leverett

Name.	Course.	Post Office.	Boarding Place.
Rittenhouse, Huffman	E.	Rector	435 Washington
Robertson, Arthur	A.	Wynne	803 Dickson
Roper, Cornelia	L. I.	Rector	Carnall Hall
Ross, Oric Manfield	L. I.	Grapevine	Hill Hall
de Roulhac, Joseph Blount	A.	Fayetteville	763 W. Dickson
Rupple, William Wallace	A.	Fayetteville	R. F. D. No. 2
Sanderson, Clifford Elmon	E.	Fayetteville	Lindell
Sawyer, Jordan E.	S.	Bentonville	Mrs. Clarke's
Schindler, Charles Stephenson	A.	New Albany, Ind.	Arkansas
Skidmore, Harrold Manuel	A.	Boynnton, Okla.	502 Washington
Smith, Earl Webster	E.	Yellville	Vanderventer
Smith, Nola	A.	Rhea	L. L. Hilton's
Snakee, Ruth Eugenia	A.	Fayetteville	369 N. Gregg
Snell, Frank Gerold	E.	Fayetteville	436 Leverett
Snyder, Leo Leonard	E.	Fayetteville	East of town
Southworth, Quinland	A.	Fayetteville	Highland
Spurlock, Gerald	E.	Fayetteville	W. Lafayette
Stephens, Walter	E.	Forrest City	753 Dickson
Stinson, James H.	L. I.	Greenwood	Dormitory
Stinson, Mary Lou	L. I.	Mist	222 E. Dickson
Stockburger, Roy	E.	Fayetteville	Cleveland
Strickland, George	Agr.	Atkins	Dormitory
Stroup, Zeta	A.	Paris	Arkansas
Stroup, Zinga	A.	Paris	Arkansas
Sturdivan, Agnes	S.	Springdale	402 N. College
Suttle, Hugh Dowell	E.	Fayetteville	319 W. Mountain
Sutton, George Huston	E.	Fayetteville	129 W. Dickson
Taley, Lewis S.	A.	Atkins	Dormitory
Taylor, Frank	A.	Scottsville	Dormitory
Thomas, Onida	L. I.	Calico Rock	Dormitory
Thompson, Mills Gilmore	A.	Gilmore	104 East
Trent, Ruth	C.	Fayetteville	218 Church
Trice, Cecil	A.	Cotton Plant	334 College
Veazy, Mildred	A.	Fayetteville	240 Whitham
Vestal, Grace	C.	Statler	Carnall Hall
Vickers, Hazzalette	A.	Fayetteville	W. Dickson
Volkner, Leo	E.	Newport	232 N. East
Walthall, Ben	L. I.	Waldo	Washington Hotel
Warmack, Alex	A.	Rosston	Dormitory
Waskom, Jesse Green	A.	Marked Tree	Ballard's
Watts, Tom	E.	Cincinnati	J. M. Moore's
Webb, Bert A.	A.	Hector	Dormitory
Weigart, George T.	A.	Fayetteville	
Wheelis, Roy Benton	L. I.	Ashdown	W. Maple
Whetstone, Ethel	A.	Rector	Carnall Hall
Williams, David Christopher	E.	Fayetteville	W. Lafayette
Williams, Grace Leon	A.	Fayetteville	820 Douglass
Williams, Guy Elsworth	A.	Fayetteville	110 University
Wilson, Allen McIlroy	A.	Fayetteville	522 W. Maple

Name.	Course.	Post Office.	Boarding Place.
Wilson, Marguerite	C.	Fayetteville	522 W. Maple
Winfrey, Hugh Lewis	A.	Rudy	Dormitory
Wisenor, William Oliver	A.	Farmington	Ballard's
Wolf, Harry H.	S.	Paris	Mt. Nord
Wood, Robert Earl	E.	Blevins	Dormitory
Woody, Dale Samuel	A.	Fayetteville	346 St. Charles
Wozencraft, Timothy	A.	Fayetteville	R. F. D. No. 3
Wright, Pat	A.	Dardanelle	Dormitory
Young, Garrison	A.	Jonesboro	Dormitory
			Total, 212.

## First Year Class.

Allison, Martha	A.	Fayetteville	102 School
Audrain, Annie C.	A.	Fairland, Okla.	513 Washington
Baber, Oscar L.	A.	Gurdon	Dormitory
Bailey, Winnie	L. I.	Blevins	Arkansas
Barron, William Wilson	E.	Paragould	Dormitory
Barry, Edna	A.	Fayetteville	753 W. Dickson
Baum, Leah	C.	Fayetteville	337 College
Benbrook, Gordon	E.	Fayetteville	223 E. Dickson
Benton, Sidney	E.	Fayetteville	100 Block
Bowen, Annie Louise	A.	Perryville	Carnall Hall
Bradford, William Cloud	A.	Houston	Dormitory
Bradley, Harrold Herbert	A.	Oklahoma City, Okla.	R. F. D. No. 2
Breckenridge, Grover C.	L. I.	Arkadelphia	Ballard's
Briggs, George Callahan	E.	Texarkana	206 W. Dickson
Browning, John W.	A.	Spring Hill, La.	Dormitory
Bryan, Cecil	A.	Vian, Okla.	Dormitory
Buchanan, Bettie V.	S.	Prairie Grove	Pearson's
Buchanan, John Garland	S.	Prairie Grove	Pearson's
Cates, Allen	L. I.	Bowles	Dormitory
Caudle, Thomas Allen	L. I.	Scottsville	Dormitory
Chaffin, Austin J.	A.	Moro	Garland
Chaney, Harry H.	E.	McAlester, Okla.	2 N. Duncan
Chryst, Mary	C.	Fayetteville	433 Vanderventer
Clark, Robert Trice	E.	Fayetteville	309 W. Center
Couch, Wylie Park	S.	Lonoke	2 N. West
Cox, Frank	L. I.	Fayetteville	R. F. D. No. 3
Crownover, Cecil E.	A.	Rover	Garland
Croxdale, Earl Thomas	A.	Fayetteville	703 W. Dickson
Croxdale, Everett Woods	A.	Fayetteville	703 W. Dickson
Daugherty, Lucian D.	A.	Newport	Mrs. Boles'
Davis, Brickell	C.	El Paso	Mrs. Nolan's
Donaldson, Lochie	C.	Rector	Walker's
Driver, Cooper	E.	Osceola	Mrs. Pulliam's
Ellis, Roy R.	A.	Hindsville	537 Leverett
Ely, Walter Davis	L. I.	Belton	Dormitory
Fant, Jasper	A.	Spring Creek	Mrs. Austin's
Faucett, Thomas	A.	Ben Lomond	Garland



Name.	Course.	Post Office.	Boarding Place.
Fisher, Macon M.	A.	Fayetteville	School
Funkhouser, Virginia E.	A.	Summers	Carnall Hall
Gaines, Whitworth	E.	Greenwood	College
Gist, Charles H.	E.	Lexa	206 W. Dickson
Gladson, Marion	A.	Fayetteville	820 Maple
Hackworth, Pat Dean	E.	Magnolia	Dormitory
Hale, Neal H.	E.	Ft. Smith	537 Leverett
Hammond, Vernon	A.	Fayetteville	Watson
Harding, Eugene	E.	Fayetteville	357 Washington
Harrell, Joseph	Agr.	Macey	Dormitory
Harris, Ben	L. I.	Greenwood	604 Leverett
Harris, William L.	A.	Thornton	Dormitory
Hays, Chas. W.	A.	Fayetteville	201 N. West
Hedrick, Gideon	S.	Fayetteville	N. W. University
Henley, Benjamin H.	Agr.	Saint Joe	W. School
Hill, Clarence E.	S.	Drake Creek	Arkansas
Hill, William E.	L. I.	Hale	Dormitory
Houser, Cleveland	L. I.	Blaine	Dormitory
Hughes, Martha	L. I.	Waldron	Hill
Humphries, Francis	E.	Fayetteville	N. College
Hutcherson, Joseph	L. I.	Dalark	Dormitory
Jackson, Jimmie Jonson	A.	Indian Bay	Dormitory
Jackson, Thomas Lee	L. I.	Umpire	Garland
Jeffery, Neil Dickson	C.	Desha	Dormitory
Jordan, Etta Lena	A.	Fayetteville	17 Hill
King, Chesley Arthur	L. I.	Tillar	Dormitory
King, Christian	L. I.	Lewisville	Carnall Hall
Kinion, Chas. Harrison	A.	Durham	Stewart's
La Cotts, Clarence E.	A.	DeWitt	727 Douglass
Lambert, Henry Lee	L. I.	Augusta	Dormitory
Lansdale, Mary Ida	C.	Ft. Smith	401 School
Lawrence, John Fenex	E.	Greenwood	406 Leverett
Lighton, Dorthy Rheem	A.	Fayetteville	R. F. D. No. 2
McCann, Noah T.	A.	Malvern	Dormitory
McCutcheon, Henry S.	A.	Abbott	
McKewen, Willie Andrew	A.	Tulip	Gray Hall
McPherson, Ralph Russell	A.	Stuttgart	Cleve Fisher's
Medley, William Chas.	A.	Locust Bayou	Mrs. Allen's
Miles, Zach H.	A.	Monticello	Mrs. Simpson's
Miller, Arthur Thomas	L. I.	Fayetteville	R. F. D. No. 3
Milligan, Lucile Margaret	A.	Fayetteville	W. Maple
Milton, George	A.	Redding	107 N. W.
Mock, Carthol	A.	Fayetteville	311 East
Moore, Katisue	A.	Fayetteville	735 W. Dickson
Moran, Marvin	A.	Thornton	Dormitory
Morley, Ruth	A.	Fayetteville	118 School
Murphy, Paul Lewis	A.	El Dorado	Dormitory
Nichols, Arthur	L. I.	Mill Town	Trent Add'n
Oates, Mary E.	C.	Russellville	

Name.	Course.	Post Office.	Boarding Place.
Oliver, James Williams	A.	Eureka Springs	122 Block
Overton, Ella	L. I.	Fayetteville	Vanderventer
Overton, Minnie	L. I.	Fayetteville	Vanderventer
Oxford, Lelia May	A.	Fayetteville	208 College
Palmer, Clark Roy	A.	Fayetteville	N. W. Campus
Parker, Alfred Lee	A.	Goshen	521 College
Parker, Priest E.	A.	Muskogee, Okla.	211 W. Dickson
Parsons, Volley Earl	A.	Arkadelphia	Dormitory
Philips, Henry Elbert	A.	Gravette	Dormitory
Plunkett, England	A.	Locust Bayou	Mrs. Allen's
Porter, Francis Elizabeth	A.	Fayetteville	515 Maple
Porterfield, Willis	S.	Delark	Dormitory
Primm, Charles A.	A.	Smackover	Douglass
Rasco, James Harry	A.	DeWitt	727 Douglass
Ratliff, Emmett Marshall	A.	Healing Springs	Dormitory
Reaves, Joe Lee	A.	Leesville, La.	2 N. Duncan
Richmond, Paul	A.	Fayetteville	356 College
Rowland, John Edgar	E.	Celestine, Okla.	600 Whitham
Rudolph, Freda Francis	A.	Fayetteville	R. F. D. No. 2
Rudolph, Grace	A.	Fayetteville	R. F. D. No. 2
Sanders, Paul	E.	Lincoln	Cooper House
Sanford, Harry W.	Agr.	Avon, S. D.	Rose Hill
Savage, Alex	A.	Ft. Smith	N. University
Scott, Ralph Russell	E.	Peach Orchard	
Scott, William Lee	A.	Peach Orchard	
Sedwick, Richard C.	E.	Fayetteville	342 St. Charles
Shofner, Jim Furgeson	A.	Cabot	Dormitory
Skelton, Mayme C.	C.	Ft. Smith	Carnall Hall
Skillern, William Albert	A.	Searcy	33 Rock
Smith, Gladys	C.	Fayetteville	33 Rock
Smith, Hugh W.	E.	Hot Springs	121 N. School
Smith, Lena L.	A.	Fayetteville	114 College
Smith, Ollie	A.	Rhea	L. L. Hilton's
Southard, Arthur Frank	A.	Alex, Okla.	Dormitory
Stuter, John Bunyan	A.	Paragould	Dormitory
Swicegood, John	E.	Nashville	N. W. University
Swope, Mabel	C.	Beaver	Carnall Hall
Taylor, Homer Harry	A.	Fayetteville	212 Church
Teeter, Hartin Burrell	A.	Russellville	Dormitory
Thomas, Clifton	E.	Fayetteville	603 Leverett
Thomason, Victor	A.	Helena	Douglass
Thurston, Henry Buchanan	S.	Rector	435 Washington
Toler, Bernard	A.	Leola	Dormitory
Turnham, Gertrude	A.	Muldron, Okla.	Rock
Tyson, Genevieve	C.	Harrison	Carnall Hall
Vann, Francis May	A.	Fayetteville	113 Washington
Vestal, Edna Vincent	C.	Statler	Dormitory
Wallis, Chas. Thomas	L. I.	Rose Bud	Dormitory
Webb, Floyd	A.	Hector	Dormitory

## REGISTER OF STUDENTS

221

Name.	Course.	Post Office.	Boarding Place.
Weir, Thomas Earl	E.	Fayetteville	N. W. Town
Welton, Leycester	A.	Redding	107 N. West
West, Susan Rebecca	A.	Alma	157 Hill
West, Walter	E.	Lavaca	N. University
Whitaker, Chas. James	A.	Knoble	220 E. Maple
Whitmore, Leara	A.	Fayetteville	416 Washington
Whittle, Martha	A.	Fayetteville	335 College
Willard, Ress Wellendrof	E.	Fayetteville	122 East
Williams, Edgar Hill	E.	Fayetteville	S. Locust
Williams, Ivon Burgan	E.	Fayetteville	Lafayette
Wooten, Grover Cleveland	A.	Marianna	Mrs. Austin's
Wozencraft, Annie Jennett	A.	Fayetteville	Maple
Yampert, de, Lou	E.	Wilmot	311 East
Young, John H.	E.	Ft. Smith	537 Leverett
			Total, 149.

## THE MEDICAL SCHOOL.

Albright, Sam. J.	Fletcher, Geo. B.	Matthews, J. T.
Allen, Chas. S.	Fletcher, M. A.	Matthews, W. L.
Allen, Robt. C.	Fowler, Charlie.	McCarty, Kenneth.
Baker, F. P.	Fowler, J. B.	McCurry, J. H.
Bannister, B. F.	Gates, Stanley M.	McHenry, P. L.
Bates, C. A.	Gentry, J. E.	McKinney, A. T.
Beasley, J. L.	George, C. E.	McKinney, Garland.
Bell, Minto.	Gladden, J. G.	McMahan, Jno. S.
Bisanz, R. F.	Goodwin, W. E.	McPherson, V. L.
Black, J. C.	Gray, Geo. A.	McPherson, W. G.
Blakeley, M. M.	Hale, Chas. L.	Means, C. S.
Blanton, H. O.	Hall, H. J.	Melton, A. S.
Bollinger, I. W.	Hardgrave, Geo. L.	Middleton, B. C.
Bomar, J. L.	Hardy, F. P.	Mitchell, C. S.
Bond, Sterling P.	Hardy, H. B.	Mitchell, J. E.
Bosshart, J. C.	Hargis, J. W.	Moore, W. P.
Boyer, H. L.	Harvey, Jno. H.	Morgan, T. M.
Bradley, Idus L.	Hatchett, J. K.	Morris, R. D.
Branch, S. H.	Hayden, J.	Munn, J. A.
Bray, T. L.	Head, Wm. M.	Neal, Jas. H., Jr.
Brooks, E. J.	Heath, E. M.	Norton, J. M.
Brown, E. J.	Henderson, T. C.	Oury, Ed.
Brown, Geo. W.	Henry, R. T.	Pace, C. W.
Browning, Harry W.	Henry, T. L.	Pace, Joseph.
Buchanan, G. A.	Higgins, Homer A.	Parker, Orlie.
Bumpass, E. W.	Holloway, E. E.	Pickens, E. A.
Burgess, M. E.	Holt, C. Zeno.	Pickens, W. A.
Butler, I. S.	Hornsby, W. W.	Plumlee, J. L.
Carter, W. I.	Hudson, P. K.	Powell, M. S.
Cathey, A. D.	Hunt, W. J.	Ratterree, I. C.
Center, Bruce.	Hunter, R. M.	Reed, C. C.
Chambers, W. C.	Hurley, Thos. D.	Reynolds, J. R.
Cleveland, Jas. W.	Hurtle, Frank E.	Riley, J. L.
Coffman, Homer L.	Ivy, C. M.	Rizer, T. C.
Colay, J. H.	Jackson, G. I.	Roberts, D. W.
Conner, P. A.	Jacobs, Irvin.	Robinson, G. M.
Cox, H. W.	Jeffery, P. H.	Sandlin, J. T.
Culbertson, R. R.	Jewell, V. L.	Shamblin, D. W.
Cutting, Herwald.	Johnson, J. N.	Simpson, W. F.
Day, Benj. H.	Johnston, E. E.	Simpson, W. S.
Day, Edward O.	Jones, S. S.	Sisco, C. P.
Dillard, J. A.	Justus, Shelby.	Slaughter, J. W.
Dodson, C. A.	Lamb, Wm. A.	Spikes, J. M.
Dollar, Jno. J.	Leiblong, J. S.	Stapp, W. W.
Doyne, C. R.	Lewis, C. R.	Stewart, Joe.
Drake, David D.	Lindsay, E. L.	Stover, Verne R.
Duff, W. M.	Long, A. D.	Taylor, G. W.
Dungan, C. E.	Long, Miss Winona E.	Taylor, Mrs. Ida M.
Dunn, O. O.	Lunsden, C. A.	Taylor, Randall.



Taylor, Wm. L.	Ware, Bert L.	Williams, E. T.
Thomas, Earnest.	Warren, G. D.	Williamson, P. G.
Thompson, H. F.	Wassell, C. McA.	Willis, Jno. T.
Thompson, M. G.	Wasson, B. A.	Wood, Geyer C.
Underwood, Eric O.	Watson, Thos. C.	Woolford, Wood S.
Uteley, F. E.	Webb, C. E.	Yarbrough, Jas. E.
Uteley, F. M.	Welch, W. W.	Yeargan, W. M.
Ward, R. H.	White, L. W.	Young, J. Z.
		Total, 171.

**LAW DEPARTMENT.**

A. O. Andrew.	D. E. Johnson.
W. W. Atchinson.	J. H. Johnson.
Elbert T. Beldin.	Walter Kennedy.
H. A. Bennett.	W. T. King.
L. P. Biggs.	H. C. Locklar.
W. A. Bishop.	George B. McCarty.
Heber M. Blasdel.	T. J. McCormick.
W. L. Bourland.	A. C. Martineau.
C. W. Britenstein.	Arthur Mashburn.
W. C. Bryant.	J. W. Morris.
B. J. Cagle.	F. C. Nolen.
M. L. Caldwell.	C. L. O'Daniel.
J. S. M. Cannon.	Henry S. Pepin.
Guy W. Caron.	J. E. Purkins.
G. C. Carter.	Elbert Rider.
Arthur D. Chavis.	Earl H. Rivers.
F. O. Collman.	Andrew H. Scott.
W. F. Condray.	F. J. Schmutz.
D. T. Cotton.	Price Schofner.
William D. Davenport.	James W. Strawn.
J. L. B. Dendy.	T. J. Terrall.
J. G. Dennis.	Frank A. Terry.
R. G. Dickinson.	J. M. Thurman.
E. K. Edwards.	W. W. Threlkeldt.
W. G. Edwards.	Shelby M. Tobey.
William H. Fortney.	Thomas E. Toler.
Robert R. Fox.	Chas. A. Vedder.
Houston Gean.	E. E. Waldens.
D. D. Glover.	S. L. White.
G. C. Hardin.	J. T. Whittaker.
Fred. A. Isgrig.	L. L. Wood.
W. D. Jackson.	O. N. Young.
F. S. Jacobs.	Total, 65.

## SUMMARY OF STUDENTS.

Graduates .....	6
Seniors .....	71
Juniors .....	87
Sophomores .....	141
Freshmen .....	244 849
Special students .....	34
Students in short courses in engineering.....	37
Students in the Conservatory.....	38 ✓
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Total number of Collegiate and Conservatory students	658
Second year preparatory.....	212
First year preparatory.....	149
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Total number of preparatory students.....	361
Unclassified .....	40
Students in short course in Agriculture.....	43
Students in Domestic Science.....	31
<hr/>	
Total number of students at Fayetteville.....	1133
Students in the Medical School (Little Rock).....	171
Students in the Law School (Little Rock).....	65
Students in the Branch Normal College (Pine Bluff).....	300
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Total number of students in the University of Arkansas...	1669

2139  
 38  
 401

## DEGREES

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On Commencement Day, June 10, 1908, degrees were conferred by the trustees of the University of Arkansas, as follows:

### Bachelor of Arts.

Thomas Lester Blakemore.	Charles Gottlieb Lueker.
Ashley Pannel Boles.	Hugh McCulloch.
John Brizzolara.	Hugh Dinsmore Miser.
Cyrus Cathey Brown.	Wilson Lee Miser.
Nora Childress.	William Sidney Morgan.
Ruth Deane.	Thomas Milton Pearson.
James Richard Grant.	Albert Redden.
Marvin Arthur Hathcoat.	Howell Rush Smith.
Robert Earl Holt.	Gracey Sowers.
Jesse Isaac Janes.	Arward Starbuck.
Alfred Jefferson Jeffries.	Mabel Walker.
David Augustus Eugene Johnson.	Oscar Eugene Williams.
George Fleming Jones.	Clarence Herbert Woodruff.

### Bachelor of Science.

George Davis Chunn.	James Harvey Ross.
William Henry Langford.	William Elmore Thompson.
Samuel W. Moore.	

### Bachelor of Music.

Maybelle Benson.	Monte Thurston.
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### Bachelor of Mechanical Engineering.

Joel Rosseau Belknap.

### Bachelor of Civil Engineering.

Earl Valentine Bird.	Zenas Lytton Reagan.
Thomas Roswell Brunson.	Lee Bryant Shaver.
John Robert Ellis.	Virgil Kleabor Snell.
Joseph Elmore Fry.	Frank A. Pritchett.
William Clarence Hight.	Joseph Cleveland Wiggins.
Jeremiah M. Locke.	Oliver Seth Wood.
Nolan Dickson Mitchell.	Edwin Francis Woodson.

**Bachelor of Electrical Engineering.**

Mack Franklin Thompson.

Freeland Page Townsley.

**CERTIFICATES.****Licentiate of Instruction.**

Bess Carnall.	Lillian Joiner.
Guyon Carnes.	H. M. Keck.
Nama Carter.	W. H. Langford.
Nell Coleman.	Charles Gottlieb Lueker.
Flora Cory.	Bertha Mickel.
Olga Davis.	William Sidney Morgan.
Opal Davis.	J. F. Oates.
Bessie Dodd.	Helen Overholt.
Corinne Dodd.	R. E. Porter.
Hassie Evatt.	Kate Reed.
Victoria Goree.	Maude Ryan.
Lizzie Irby.	Gracie Sowers.
Jesse Isaac Janes.	Alma Vanderslice.

**Agriculture.**

William W. Nelson.

**Mechanical Engineering.**

Herbert Wells Barton.

Arthur Irving.

Fred L. McMillan.

The degree of LL. B. was conferred on the following graduates of the Law School:

L. V. Beaulieu.	Louis Josephs.
B. D. Brickhouse.	R. O. Kirtley.
E. L. Carter.	O. D. Longstreth.
J. E. Clerget.	I. A. Lyons.
J. F. Clifford.	S. F. Morton.
A. W. Dobyns.	G. G. Murphy.
O. L. Eaton.	Walter G. Riddick.
William P. Galligan.	W. H. Strength.
E. E. Hopson.	Guy W. Swaim.
M. C. Hutten.	Oscar H. Winn.

A. D. Whitehead.



The degree of M. D. was conferred on the following graduates of the Medical School:

H. S. Beasley.

W. L. Brown.

Guy Clark.

W. P. Cottrell.

J. B. Dooley.

B. F. Green.

W. F. Hamilton.

I. H. Jewell.

S. F. Junkin.

E. L. Matthews.

J. R. May.

M. P. McNeil.

W. A. Nowlin.

W. C. Porter.

P. R. Powell.

L. M. Sickler.

D. M. Switzer.

C. A. Watson.

I. C. Wozencraft.

# Collegiate Alumni of the University of Arkansas

Name.	Degree.	Year.	Occupation.	Address.
Abercrombie, Bertha..	B. A.	'05	.....	Fayetteville.
Abercrombie, J. S....	B. A.			
	L. L. B.	'04	Lawyer .....	Benton, Ark.
Abernathy, G. C....	B. A.	'00	Lawyer .....	Shawnee, Okla.
Aikin, D. C.....	B. C. E.	'89	.....	
Alden, R.....	B. A.	'02	Ass't Cashier Grove Bank..	Grove, Okla.
Allen, Edna .....	B. A.	'96		
Anderson, L. S....	B. L. L.	'84	Examiner, U. S. Patent Office .....	Washington, D. C.
Andrix, E. E....	B. M. E.	'06	.....	
Arbuckle, J. D.....	B. A.	'92	District Prosecuting Att'y.	Paris, Ark.
Armistead, C. F....	B. A.	'93	Capt. 21st Infantry, Com- mandant U. of A.....	Fayetteville.
Ash, L. R.....	C. E.	'05	.....	
	B. C. E.	'93	.....	
	B. E. E.	'94	Civil Engineer, with I. G. Hedrick .....	Kansas City, Mo.
Askew, G. H.....	B. A.	'98	Insurance Agent .....	Little Rock, Ark.
Askew, Nancy E....	B. A.	'01	Mrs. C. N. Weems .....	Smith's Grove, Ky.
Askew, W. H.....	B. A.	'97	Lawyer .....	Magnolia, Ark.
Austin, R. E. L....	B. A.	'06	Teacher .....	Lonoke, Ark.
Ayres, W. E.....	B. C. E.	'98	Civil and Const. Eng.....	156 Randolph Bldg., Memphis, Tenn.
Balch, C. P.....	B. A.	'07	.....	
	L. I.	'05	.....	
Ballard, B. C.....	B. A.	'06	Teacher .....	Springdale, Ark.
Ballard, J. M.....	B. A.	'07	Teacher .....	Springdale, Ark.
Barnett, C. P....	B. E. E.	'96	Eng. for Urban Const. Co. 401-402 Dwight Bldg., Kansas City, Mo.	
Barnett, Nettie .....	B. L.	'76	Mrs. C. P. Boles.....	Fayetteville.
Barr, Ida G.....	B. S.	'96	Mrs. R. E. Bagley.....	Perry, Okla.
Barrett, F. B.....	B. C. E.	'07	Topo. U. S. G. S.....	Jonesboro, Ark.
Barrett, R. M.....	B. S. C.	'08	.....	Jonesboro, Ark.
Barton, R. B.....	B. A.	'02	Member F. G. Barton Cot- ton Co. ....	Memphis, Tenn.
Bates, C. O.....	B. A.	'83	Prof. Chem., Coe College..	Cedar Rapids, Ia.
Bates, J. H.....	B. A.	'86	.....	
Bates, Madge N....	B. A.	'03	Mrs. Hugh Morrow .....	Fayetteville.
Baxter, J. W.....	B. A.			
	B. S.	'02	Real Estate and Invest- ments .....	Fayetteville.
Beakley, J. D.....	B. A.	'02	.....	
Beard, A. H.....	B. C. E.	'05	.....	
Beattie, Mary B....	B. A.	'96	Primary Art Teacher, School for Deaf.....	Flint, Mich.

Name.	Degree.	Year.	Occupation.	Address.
Belknap, J. R.....	M. E.	'08	.....	.....
Bell, J. C.....	B. A.	'94	.....	.....
Bell, M. L.....	B. A.	'98	Local Atty., C. R. I. & P. Ry. Co. ....	Chicago, Ill.
Bevers, A. W.....	B. A.	'99	Druggist .....	Springdale, Ark.
Bibb, Blanche .....	B. A.	'93	Mrs. G. A. Humphreys....	New York.
Billings, F. M....	B. C. E.	'03	Ch. Engr. The Oliver- Cuban Co. ....	Manzanilla, Cuba.
Bird, Earl V.....	B. C. E.	'08	Engr., Drainage Works....	Marks, Miss.
*Black, J. W.....	B. A.	'92	.....	.....
Blackshire, P. L....	B. C. E.	'06	Railway Engineer .....	Saskatchewan, Canada.
Blackwell, W. I....	B. C. E.	'92	.....	.....
Blair, J. H.....	B. C. E.	'99	Consulting Engineer .....	Joplin, Mo.
Blair, Leora .....	L. I.	'04	.....	.....
	B. A.	'07	Teacher .....	Van Buren, Ark.
Blakeley, Leonora I..	B. A.	'78	.....	.....
	L. I.	'78	Mrs. H. M. Hudgins .....	Fayetteville.
Blakemore, T. L....	B. A.	'08	.....	.....
Blanchard, Fay H....	B. A.		.....	.....
	L. I.	'04	.....	Fayetteville.
Blaylock, J. C....	B. C. E.	'03	Chief Estimator and De- signer, H. Eilenberger & Co. ....	Chicago, Ill.
Bloom, J. R.....	B. E. E.	'04	Pine City Elec. Co.....	Pine Bluff, Ark.
Boles, A. P.....	B. A.	'08	Student, U. of A.....	Fayetteville.
Bolinger, W. A.....	B. A.	'07	Teacher, Ft. Smith H. S..	Ft. Smith, Ark.
*Booth, W. P.....	B. A.	'82	.....	.....
Borden, Alice .....		'77	Mrs. J. B. Strouse .....	2022 Floyd St., Louisville, Ky.
Borders, J. M.....	B. S. A.	'07	Real Estate .....	Fayetteville.
Bostick, J. A.....	B. S.	'01	Inspector Treas. Dept....	Washington, D. C.
*Botefur, Laura D.....		'75	Mrs. G. W. Shulte.....	.....
Bowles, P. ....	B. C. E.	'88	.....	.....
Boyd, W. E.....	B. A.	'96	Gen. Claim Agt., T. & B. V. Ry. ....	Houston, Tex.
Braly, Amanda .....	B. S.	'96	.....	.....
	L. I.	'06	Teacher, Public Schools....	Fayetteville.
Braly, E. H.....	B. A.	'94	Eng. for Wm. Kenefick Co.	Kansas City, Mo.
*Braly, E. K.....	B. M. E.	'97	.....	.....
Braly, Etta .....	B. S.	'96	Mrs. Thos. McCulloch ....	Lincoln, Ark.
Brewer, O. H. P....	B. S.	'93	Pres. Cherokee Bd. of Ed..	Muskogee, Okla.
Brewster, H.....	B. A.	'03	.....	.....
Briggs, O. D.....	B. A.	'02	.....	.....
Brixey, A. M.....	B. A.	'96	Merchant .....	Mounds, Okla.
Brizzolara, John .....	B. A.	'08	Student, Columbia Univ...	New York City.
Brockman, E. W....	B. A.	'06	Law Student, Cumberland Univ. ....	Lebanon, Tenn.

\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Brown, C. C.....	B. A.	'08	Med. Student, Johns Hop- kins .....	Baltimore, Md.
Brown, E. T....	B. C. E.	'00	Div. Engr. B. & O. Ry....	Winchester, Pa.
Brown, F. I....	B. M. E.	'02	Mech. Eng., with Thos. Fordyce Co. ....	Little Rock, Ark.
Brown, H. S....	B. M. E.	'01	N. E. Mgr. of Power Spe- cialty Co. ....	Boston, Mass.
Brown, W. D....	B. A.	'82	Physician .....	Newtonia, Mo.
Brunskog, C. W..	B. C. E.	'06	Inst. Man. for C. M. & St. P. Ry. ....	Whitehall, Mont.
Brunson, T. R....	B. C. E.	'08	.....	.....
Bryan, L. B....	B. C. E.	'03	Ass't City Engineer .....	Chattanooga, Tenn.
Bryant, W. C....	B. A.	'07	Teacher, Little Rock H. S.	Little Rock, Ark.
Buchanan, H. E....	B. A.	'02	Graduate Student, U. of C.	Chicago, Ill.
Buford, C. H....	B. C. E.	'07	Inst. Man. for C. M. & St. P. Ry. ....	Chicago, Ill.
Burney, Sue .....	B. A.	'04	Principal, High School....	Van Buren, Ark.
Butler, H. M....	B. A.	'79	.....	.....
Campbell, J. L....	B. A.	'97	Traveling Salesman .....	Greenwood, Ark.
Campbell, L. L....	B. A.			
	L. I.	'06	Law Student, Columbia U..	New York City.
*Carden, E. B....	B. L.	'77	.....	.....
*Carnall, Ella .....	Ph. M.	'81	.....	.....
Carothers, Neil .....	B. A.	'05	Adj. Prof. Econ. & Sociol., Univ. of Ark.....	Fayetteville.
Carr, W. B....	B. S.	'05	With Iola Portland Cement Co. ....	Dallas, Tex.
Carrigan, A. H....	B. A.	'82	Dist. Judge, 30th Dist....	Wichita Falls, Tex.
Carson, Annie E....		'75	Mrs. Jno. Knight .....	Jonesboro, Ark.
Carson, Augusta O....		'75	Mrs. T. W. Cline.....	.....
Carter, E. L....	B. A.	'05	Law Student, U of A....	Little Rock, Ark.
Carter, H. R....	B. C. E.	'07	City Engr. ....	Texarkana, Ark.
Cartwright, W. W....	L. I.	'03		
	B. A.			
	B. S.	'03	Member Gen. Assembly....	Mountain View, Ark.
Catts, E. C....	B. M. E.	'06	With Eagle & Phoenix Cot- ton Mills .....	Columbus, Ga.
Chanslor, C. K....	B. A.	'82	Cashier, Barry Co. Bank....	Cassville, Mo.
Chapman, J. Jr....	B. C. E.	'05	Insp. St. Francis Levee....	Memphis, Tenn.
Chapple, E. W....	B. E. E.	'04	With Gen. Elec. Co., Pro- duction Dept.....	Schenectady, N. Y.
Cherry, W. R....	B. A.	'82	Cashier, Bank of Paris....	Paris, Ark.
Childress, Nora .....	B. A.	'08	Teacher .....	.....
Chunn, G. D....	B. S.	'08	.....	Holly Grove, Ark.
Clancy, Wm., Jr..	B. C. E.	'02	Mining Engr., E. Butte Copper Mining Co. ....	Butte, Mont.
Clark, E....	B. A.	'03	.....	.....

\*Deceased.



Name.	Degree.	Year.	Occupation.	Address.
Cochrane, V. H.	B. C. E.	'01	.....	.....
	C. E.	'06	Ch. Draftsman, Waddell & Hedrick	Kansas City, Mo.
Cockrill, E.	B. M. E.	'05	.....	Little Rock, Ark.
Coker, A.	B. C. E.	'07	.....	Lead Hill, Ark.
Coker, R.	B. C. E.	'07	Gen. Contractor	Ft. Smith, Ark.
Cole, Mary E.	L. I.	'04	Instructor, High School	Stillwater, Okla.
	B. A.	'05	.....	.....
Collier, J. T.	B. A.	'01	.....	.....
Collins, T. A.	B. A.	'06	Ass't Pros. Atty.	De Queen, Ark.
Combs, W.	B. C. E.	'07	Draftsman, Tallehatchie Drainage Comm.	Greenville, Miss.
Connelly, S.	B. A.	'00	.....	.....
Cook, C. M., Jr.	B. S.	'05	Midshipman, U. S. N. Academy	Annapolis, Md.
Cook, L. J.	B. A.	'04	Atty. at Law and Real Est.	Texarkana, Ark.
Craig, P. G.	B. A.	'06	Student, Columbia Univ.	New York City.
Cravens, Jessie	B. L. L.	'83	Mrs. O. L. Cravens	Neosho, Mo.
Crawford, W. A.	B. A.	'00	Supt. Schools	Russellville, Ark.
Cromwell, C. W.	B. C. E.	'05	Designer, Montana Smelter Co.	Great Falls, Mont.
Croom, C. W.	B. A.	'06	.....	West Point, Miss.
Crozier, A. B.	B. E. E.	'97	Consulting Engineer	510 K. C. Life Bldg., Kansas City, Mo.
Crozier, Elizabeth N.	B. A.	'03	Mrs. H. C. Evins	Morrow, Ark.
Crozier, Ruth	B. A.	'07	.....	Fayetteville.
Crozier, W. N.	B. A.	'88	Minister	Fayetteville.
Cubage, J. G.	B. A.	'06	Teacher	Hot Springs, Ark.
Cummings, R. N.	B. A.	'98	.....	2423 9th Ave., Seattle, Wash.
Curry, Lula	B. S.	'92	Mrs. G. L. Teller	Riverside, Ill.
Dalton, C. E.	B. E. E.	'06	.....	.....
Danaher, M.	B. A.	'88	Lawyer	Pine Bluff, Ark.
Daniels, H. F.	B. C. E.	'03	Trav. Frt. Agt., N. & W. Ry.	Memphis, Tenn.
Davies, B. F.	B. A.	.....	.....	.....
	B. S.	'01	Lawyer	Wewoka, Okla.
Davies, Hadgie B.	B. A.	'03	Mrs. L. R. Ash	Kansas City, Mo.
Davies, Lilah C.	B. A.	'96	Mrs. Claud Head	Little Rock, Ark.
Davies, Mary L.	L. I.	'04	.....	.....
	B. A.	'04	Teacher	Texarkana, Ark.
Davis, Barbara C.	B. Mus.	'06	Mrs. L. S. Olney	Fayetteville.
Davis, F. H.	B. C. E.	'03	Junior Engr., Miss. River Comm.	Vicksburg, Miss.
Davis, J. B.	B. S.	'05	.....	Chelsea, Okla.
Davis, J. H.	B. E. E.	'01	Ass't Elec. Engr. B. & O. Ry.	Baltimore, Md.
Davis, Lizzie P.	.....	'75	Mrs. R. C. Brown	.....
Davis, Lyta	B. S.	'07	.....	Fayetteville.

Deloney, E. D.....B. A.	'06	.....
Deane, Ruth E.....B. A.	'08	Teacher, Public Schools...Mena, Ark.
Deane, S. E.....B. C. E.	'07	Surveyor, C. C. C. & Co.. Big Muddy, Wyo.
Dickinson, Ruth A...B. A.	'00	Mrs. Elliott Berry .....Bentonville, Ark.
Dickinson, T. T.....B. A.	'00	.....
L. L. B.	'02	Lawyer .....Little Rock, Ark.
Dickinson, W. E...B. S. Ch.	'05	Chemist, Independent Phosphate Mines .....Columbia, Tenn.
Dickson, E. W...B. E. E.	'07	Electric Engineer .....Desha, Ark.
Dickson, W. E.....B. A.	'88	Teacher .....Waldo, Ark.
Drake, C. H.....B. C. E.	'91	.....
C. E.	'94	.....Summers, Ark.
Drake, N. F.....B. C. E.	'96	.....
Drees, C. J.....B. E. E.	'96	Member Ark. Elec. Co....Little Rock, Ark.
Droke, G. W.....A. M.	'80	Prof. of Math. and Astron., U. of A.....Fayetteville.
*Droke, Lelia R....B. A.	'03	.....
M. A.	'06	.....
Droke, M. Josephine.B. A.	'04	Teacher, Galloway College.Searcy, Ark.
Droke, Mary I....B. Mus.	'07	Teacher, High School.....Fayetteville.
Duncan, W. H....B. L. L.	'84	Lawyer .....Conway, Ark.
Dyer, Mallie .....B. A.	'94	.....Prairie Grove, Ark.
Earle, Clara .....B. A.	'96	Teacher, Cumberland U...Lebanon, Tenn.
*Edminton, W. L.B. L. L.	'84	.....
Eld, Amanda A.....B. A.	'98	Prin. Academy for Indian Girls .....Tuskahoma, Okla.
Eld, C. J.....B. C. E.	'96	Cons. Engr. for American Water Works & Guarantee Co. ....Pittsburg, Pa.
Eld, G. W.....B. M. E.	'00	.....
Ellis, F. W.....B. A.	'81	Lieut. U. S. Army, Ret...Fayetteville.
Ellis, J. R.....B. E. E.	'03	.....
B. C. E.	'08	2d Lieut. U. S. Army....San Francisco, Cal.
Ellis, W. Y.....B. E. E.	'02	Supt Pine Bluff Electric Ry. Co. ....Pine Bluff, Ark.
England, W. W....B. A.	'83	.....
Erwin, T. ....B. S.	'00	Assoc. Prof. of Hort., Iowa A. & M. College.....Ames, Ia.
Evins, Sallie D....B. A.	'07	.....
Feathers, J. E....B. C. E.	'07	.....Fayetteville.
Feild, W. T....B. M. E.	'06	Inst. M. E. Dept. and Student, U. of A.....Fayetteville.
*Filmore, C. R.....B. S.	'99	.....
Fishback, L. F.....B. S.	'89	Lawyer .....Ft. Smith, Ark.
Floyd, J. C.....B. A.	'79	Member of Congress....Yellville, Ark.
Flynn, W. M.....B. A.	'88	.....
Foreman, C. D....B. S. A.	'06	Farmer ..Chelsea, Okla.
Freeman, W. A.....B. S.		
B. A.	'01	Engineer, U. P. R. R....Green River, Wyo.

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Name.	Degree.	Year.	Occupation.	Address.
Fry, J. E.....	B. C. E.	'08	Cons. Engr. ....	Van Buren, Ark.
Galloway, J. R.....	B. A.	'92	.....	.....
Galloway, Rowena M.	B. A.	'02	Inst. Prep. Dept. U. of A.	Fayetteville.
Gardner, J. W.....	B. A.	'06	Prin. Paris H. S.....	Paris, Ark.
Gates, D. A.....	B. L.			
	B. A.			
	B. L. L.	'84	Chief of Revenue Agents..	Washington, D. C.
Gibson, F. I.....	B. S.	'02	Chemist, So. Cotton Oil Co.	Savannah, Ga.
Gibson, J. E.....	B. M. E.	'94	Ass't Eng. Am. Pipe Co..	Philadelphia, Pa.
Goodwin, W. P.....	B. L. L.	'84	.....	.....
*Gordon, Belle E....	B. A.	'76	.....	.....
Grant, J. R.....	B. A.	'08	.....	Dover, Ark.
Gray, W. D.....	B. A.	'00	Instructor in Latin, Smith College .....	Northampton, Mass.
Greaves, C. D.....	B. A.	'83	Lawyer .....	Hot Springs, Ark.
Gregg, A. S.....	B. A.	'78	Physician .....	Fayetteville.
*Gregg, A. W.....	B. A.	'76	.....	.....
Gregg, Edna .....	B. Mus.	'04	Private Teacher .....	Little Rock, Ark.
Gregg, L. W.....	B. A.	'82	Ass't Dist. U. S. Atty....	Ft. Smith, Ark.
Grubbs, J. M.....	B. A.	'05	.....	.....
	L. I.	'05	Lawyer .....	Argenta, Ark.
Hall, C. E.....	B. C. E.	'93	With D. & R. Ry. Co.....	Dardanelle, Ark.
Hall, H. J.....	B. A.	'94	.....	.....
	L. I.	'87	Editor .....	Waldron, Ark.
Hamilton, W. J.....	L. I.	'91	.....	.....
	B. A.	'92	Merchant .....	Hartford, Ark.
Hardin, Lena J.....	B. A.	'02	.....	.....
	L. I.	'92	.....	Fayetteville.
Hardin, Nina V.....	B. A.	'02	.....	.....
	M. D.	'05	Physician .....	Fayetteville.
Harding, A. M.....	B. A.	'04	Adj. Prof. Math., U. of A.	Fayetteville.
Harding, C. T.....	B. C. E.	'06	Supervising Engr. B. P. I.	Bonner Springs, Kan.
Harding, V. A.....	B. C. E.	'07	Inst. C. E. Dept., U. of A.	Fayetteville.
Harris, Agnes .....	B. A.	'76	Mrs. W. T. Johnson.....	Kansas City, Mo.
Harris, Sara F.....	B. A.	'76	Mrs. C. P. Conrad.....	.....
Harris, W. M.....	B. A.	'03	Lawyer .....	Little Rock, Ark.
*Harrison, Grace .....	B. S.	'89	Mrs. T. L. Brown.....	.....
Harrod, J. H.....	B. A.	'79	Lawyer .....	Little Rock, Ark.
Hart, J. C.....	B. A.	'85	Associate Justice Supreme Court .....	Little Rock, Ark.
Hathcoat, M. A.....	B. A.	'08	Teacher .....	Yellville, Ark.
Hawkins, J. T.....	B. L. L.	'77	Physician .....	Mount Holly, Ark.
Head, J. D.....	B. A.	'94	Lawyer .....	Texarkana, Ark.
Heberly, J. A.....	B. S.	'93	.....	Germany.
Hedrick, I. G.....	B. C. E.	'92	Cons. Engr. ....	Kansas City, Mo.
Henderson, G. D.....	B. A.			
	B. L. L.	'01	Lawyer .....	Little Rock, Ark.
Hervey, W. R.....	B. S.	'90	Pres. Am. Nat'l Bank....	Los Angeles, Cal.

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Name.	Degree.	Year.	Occupation.	Address.
Hight, W. C.....	B. C. E.	'08	Engr. on Tallehatchie Drain- age Works .....	Marks, Miss.
Hillis, A. W.....	B. L. L.	'84	Lawyer .....	Lake City, Ark.
Hillman, C. C.....	B. S.	'07	Med. Student, Johns Hop- kins Univ. ....	Baltimore, Md.
*Hobbs, J. H.....	B. A.	'88	.....	.....
Hobbs, W. D.....	B. A.	.....	.....	.....
.....	B. S.	'01	.....	.....
.....	L. I.	'99	War Dept. Bldg.....	Washington, D. C.
Holcomb, Cener .....	L. I.	'90	.....	.....
.....	B. A.	'92	Mrs. E. F. Ellis.....	Fayetteville.
Holcomb, Jobelle ....	B. A.	'98	Dean of Women, and Adj. Prof. of Eng., U. of A.	Fayetteville.
Holland, W. C.....	B. A.	'06	Druggist .....	Greenwood, Ark.
Holt, F. W.....	B. A.	'03	Ass't Paymaster, U. S. N., Bureau of Supplies and Accts., Navy Dept.....	Washington, D. C.
Holt, J. S.....	B. A.	'07	Law Student, U. of Va...	Charlottesville, Va.
Holt, R. E.....	B. A.	'08	Law Student, U. of Va...	Charlottesville, Va.
Hon, Daniel .....	B. A.	.....	.....	.....
.....	M. A.	'82	Circuit Judge .....	Waldron, Ark.
Honnett, A. M....	B. E. E.	'03	Engineering Supplies and Mfrs.' Agt. ....	329-330 Frisco Bldg., St. Louis, Mo.
Hooper, Lillian G..	B. Mus.	06	.....	Fayetteville.
Hornor, J. L.....	B. A.	'00	Lawyer .....	Helena, Ark.
Horsfall, F.....	B. S.	'00	Horticulturist. Mo. State Fruit Exp. Station.....	Mountain Grove, Mo.
Horton, S. A.....	B. A.	'91	Prin. of City School.....	Houston, Tex.
House, J. W., Jr....	B. A.	'07	Law Student, Columbia U.	New York City.
Howell, Edward ....	B. A.	'01	Lawyer .....	Shawnee, Okla.
Howell, J. W.....	B. L. L.	'85	Mgr. Ark. Cotton Oil Co. Plant .....	Ft. Smith, Ark.
Howell, Willey ....	B. S.	'97	Capt. 6th U. S. Infantry..	Ft. Leavenworth, Kan.
Hudgins, J. G.....	L. I.	'05	.....	.....
.....	B. A.	'05	Teacher .....	Fayetteville.
Hudgins, W. H....	B. C. E.	'01	Ass't Engr. S. P. Ry. Co.	San Francisco, Cal.
Hudson, J. H....	B. L. L.	'84	.....	.....
Hughes, L. C.....	B. S.	'07	.....	.....
.....	B. A.	'08	.....	Fayetteville.
Huie, R. W.....	B. A.	'99	Banker .....	Arkadelphia, Ark.
Humphreys, G. A....	B. A.	'90	Physician .....	New York City.
Hunt, H. G.....	B. A.	'06	Law Student, U. of Mo....	Columbia, Mo.
Hurst, G. A.....	B. A.	'06	Member Gen. Assembly....	Fayetteville.
Hyatt, R. F.....	B. Ch. E.	'07	Cadet, U. S. Military Ac.	West Point.
Irby, A. S.....	B. A.	'05	Lawyer .....	Black Rock, Ark.
Jacks, M. E.....	B. S.	'06	Chemist .....	Bisbee, Ariz.
Jackson, B. O.....	B. A.	'05	Merchant .....	Hamburg, Ark.

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Jeffries, A. J. ....	B. A.			Little Rock, Ark.
Jeffries, S. S. ....	B. A.	'05	Ass't Postmaster .....	Clarendon, Ark.
Jennings, E. ....	B. A.	'77		Pittsburg, Kan.
Johnson, A. J. ....	B. A.	'07	Member Ark. State Senate.	Star City, Ark.
Johnson, A. P. ....	B. A.	'76		
Johnson, D. A. E. ....	B. A.	'08	Member Gen. Assembly...	Paris, Ark.
*Johnson, T. M. ....	B. L. L.	'80		
Johnston, J. H. ....	B. S. A.	'06	Florist .....	Little Rock, Ark.
Jones, C. W. ....	B. S.	'05		
Jones, G. F. ....	B. A.	'08	Member Ark. Gen. Assem.	Frank, Ark.
Jones, Gustave ...	B. L. L.	'82	Lawyer, Member Board of Trustees, U. of A. ....	Newport, Ark.
Jordan, Grace .....	B. A.	'05		Forrest City, Ark.
Keeney, Augusta R. B.	Mus.	'06	Mrs. Guy Phillips. ....	Fayetteville.
Kimball, G. H. ....	B. C. E.	'02	Sec. Queen of Ark. Ins. Co.	Little Rock, Ark.
King, Artelle A. ....	B. L. L.	'80	Mrs. J. C. Belt .....	
Kinsworthy, E. B. ....	B. L. L.			
	B. L.	'85	Lawyer .....	Little Rock, Ark.
Kirby, F. B. ....	B. A.	'99	Physician .....	Harrison, Ark.
Kitchens, B. M. ....	B. A.	'05	Merchant .....	Paragould, Ark.
Kitchens, T. B. ....	B. A.			
	M. A.	'80	Sec. Paragould Ins. Co. ....	Paragould, Ark.
Knott, V. P. ....	B. C. E.	'04	Assoc. Prof. of C. E., U. of A. ....	Fayetteville.
Kunz, E. H. ....	B. A.			
Lake, Ella .....	B. L. L.	'84	Mrs. S. W. Barnett. ....	
Langford, B. W. ....	B. A.	'04	Bookkeeper for Fox Bros. Hardware Co. ....	Pine Bluff, Ark.
Langford, W. H. ....	B. A.	'80	Banker .....	Pine Bluff, Ark.
Langford, Wm. Henry.	B. A.	'08		Vilonia, Ark.
Lanier, J. A. M. ....	B. A.			Springfield, Mo.
Lark, W. H. ....	B. C. E.	'05	Ass't Engr. Imp. Dist. Work .....	Little Rock, Ark.
Leche, Mary M. ....	B. Mus.			
Legate, R. H. ....	B. S.	'05	Student, Yale University..	
Leverett, Abbie ....	B. A.	'94	Mrs. J. H. Taff .....	Marfa, Texas.
Leverett, E. V. ....	B. M. E.	'04	Supt. City Elec. Lt. Plant.	Bentonville, Ark.
Leverett, Mary .....	B. A.	'86	Mrs. J. A. Taff. ....	2002 Franklin St., N. E., Washington, D. C.
Leverett, Rose C. ....	B. A.	'97		
Leverett, S. B. ....	B. S.	'06		Magdalena, Mexico.
Lipsey, D. B. ....	B. S.	'96	Merchant .....	Fayetteville.
Locke, J. M. ....	B. C. E.	'08	Engr. for Midland Valley Ry. ....	Muskogee, Okla.

\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Longino, J. L....	B. E. E.			
	B. M. E.	'03		Canfield, Ark.
Lueker, C. G.....	B. A.	'08	Farmer	Naravisa, N. M.
Mahoney, J. K.....	B. A.	'07	Lawyer	El Dorado, Ark.
Marrs, S. E.....	B. A.	'79	Editor Democrat	Fayetteville.
Marshall, J. C.....	B. A.			
	M. A.	'79	Lawyer	Little Rock, Ark.
Martin, M.....	B. M. E.	'91		
	M. E.	'93	Prof. of Mech. Eng., Wash.	
			Agr. College	Pullman, Wash.
Martineau, J. E....	B. A.	'96	Judge of Chancery Court.	Little Rock, Ark.
Massie, J. C.....	B. A.	'77	Wool Grower	Alzada, Mont.
Mayes, J. F.....	B. A.	'83	U. S. Marshal, W. Dist. of	
			Arkansas	Ft. Smith, Ark.
McAlester, E. W....	B. E. E.	'04	With Gen. Elec. Co.....	Schenectady, N. Y.
McCain, W. R.....	M. A.	'98	Fire Insurance	Fordyce, Ark.
McConnell, J. E....	B. A.	'07	Minister	Prairie Grove, Ark.
McConnell, J. L....	B. C. E.	'02	Supt. of Const., Sargent &	
			Lunday Co.	Chicago, Ill.
McCrory, G. G....	B. C. E.	'06	Civil Engineer	Birmingham, Ala.
McCulloch, D.....	B. A.	'07	Law Student, U. of Va....	Charlottesville, Va.
McCulloch, H.....	B. A.	'08	Med. Student, Johns Hop-	
			kins University	Baltimore, Md.
McDonough, J. B....	B. A.	'82	Lawyer	Ft. Smith, Ark.
McFarlane, R. W....	B. A.	'82		
	M. A.	'84	Lawyer	Greenwood, Ark.
McGehee, A., Jr....	B. A.	'03	Lawyer	Little Rock, Ark.
McGehee, B.....	B. C. E.	'05	Cons. Engineer	Little Rock, Ark.
McKinney, C. S.....		'75		
McMillan, Della...	B. Mus.	'05	Mrs. B. O. Jackson.....	Hamburg, Ark.
*McNeeley, J. C....	B. C. E.	'89		
McNeill, D. A....	B. M. E.	'97		
McRae, C.....	B. C. E.	'01	Lumber Merchant	Mt. Holly, Ark.
Means, E. D.....	B. A.	'00	Supt. Schools	Pocahontas, Ark.
Mellete, W. M.....	B. L.	'77	Attorney	Muskogee, Okla.
Melton, Hattie C....	B. A.	'03	Mrs. M. L. Cotton	Stigler, Okla.
Middleton, Mai	B. A.	'86	Mrs. Robert Chasteen....	Pawnee, Okla.
Middleton, R. J....	B. C. E.	'03	Ass't Engr. C. M. & St.	
			P. Ry.	Chicago, Ill.
Milum, R. W.....	B. A.	'04	Merchant	Harrison, Ark.
Mitchell, B., Jr..	B. M. E.	'07	Adj. Prof. M. E., U. of A.	Fayetteville.
Mitchell, N. D....	B. C. E.	'08	Chief Engr. C. Valley Ry.	
			Co.	Sedgwick, Ark.
Mitchell, S. A.....	B. A.	'03	Lawyer, Mo. Trust Bldg..	St. Louis, Mo.
Miser, H. D.....	B. A.	'08	Field Geologist	Fayetteville.
Miser, W. L.....	B. A.	'08	Principal of H. S.....	Portland, Ark.
Mobberly, H. P....	B. C. E.	'94	Div. Engr. La. Div., T. &	
			P. Ry.	Boyce, La.

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Mock, E. L.....	B. A.	'94	With Wm. D. Cleveland & Sons .....	Houston, Tex.
Mock, L. Byrd .....	B. A.	'94	.....	.....
	M. A.	'05	Journalist .....	St. Louis, Mo.
Moore, B. L.....	B. A.	'81	.....	.....
Moore, Henrietta ...	B. A.	'07	.....	.....
	L. I.	'07	Teacher .....	Warren, Ark.
Moore, J. F.....	B. S.	'93	Merchant .....	Fayetteville.
Moore, J. H.....	B. S.	'93	Chemist, Mathieson Alkali Works .....	Saltville, Va.
Moore, J. I.....	B. A.	'81	Lawyer .....	Helena, Ark.
Moore, J. L.....	B. M. E.	'97	.....	.....
Moore, Lucy J.....		'75	Mrs. J. G. Ross.....	Fayetteville.
Moore, S. W.....	B. A.	'08	Inst. Prep. Dept., U. of A.	Fayetteville.
Mooring, D. C.....	B. S.		.....	.....
	M. S.	'03	Ass't Prof. of Hort., Miss. Agr. College .....	Starksville, Miss.
Morgan, W. S.....	B. A.	'08	Teacher .....	Hartford, Ark.
Morrow, D. C....	B. E. E.	'97	Local Mgr. United Iron Works Co. ....	Iola, Kan.
Morrow, H. E....	B. S. A.	'04	Adj. Prof. Chem., U. of A.	Fayetteville.
Morrow, Mattie M....	B. S.	'90	Mrs. J. D. Wilson.....	Fayetteville.
*Mulholland, Sara...	B. A.	'86	Mrs. J. F. Mayes.....	.....
Muller, J. F.....	B. M. E.	'03	With Iron Mt. Ry. Co....	Little Rock, Ark.
Mullins, G. W.....	B. A.	'04	Prof. Math. Simmons College .....	Abilene, Tex.
Mullins, T. C....	B. C. E.	'06	Engr. with Chicago Traction Co. ....	Chicago, Ill.
Mundt, L. J.....	B. A.		.....	.....
	B. S.	'01	Lawyer, Bevins & Mundt..	Helena, Ark.
Murphy, J. W.....	B. S.	'07	Ass't Chem., Texas A. & M. College .....	College Sta., Tex.
Myar, A. J.....	B. C. E.	'96	Engr. with St. L. Br. & Iron Co. ....	St. Louis, Mo.
Neal, W. H.....	B. L.	'76	.....	.....
Nelson, R. J.....	L. I.	'03	.....	.....
	B. S.	'04	.....	.....
	M. S.	'07	Prof. of Agr., U. of A....	Fayetteville.
Newman, A. J.....	B. A.	'91	Lawyer .....	Little Rock, Ark.
Newman, L. L....	B. E. E.	'01	.....	.....
Nichols, G.....	B. A.	'98	With Colo. Ry. Assoc.....	Room 507 Earnest & Cranmer Bldg., Denver, Colo.
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Notrebe, E. P.....		'85	.....	.....
Oates, C. E.....	L. I.	'04	.....	.....
	B. A.	'06	Principal, Cameron H. S..	Cameron, Tex.
Oats, T. F.....	B. A.	'82	.....	.....
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\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Oishi, Zenki .....	M. A.	'06	.....	Japan.
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Olney, L. S. ....	B. E. E.	'05	Assoc. Prof. Elec. Eng., U. of A. ....	Fayetteville.
Or, M. K. ....	B. Mi. E.	'07	.....	Mercur, Utah.
Orto, C. H. ....		'00	Auditor, Armour & Co. ....	Memphis, Tenn.
Pace, Ida .....	B. A.	'88	Mrs. A. H. Purdue .....	Fayetteville.
Parker, A. C. ....	B. S.	'07	Medical Student, Tulane University .....	New Orleans, La.
Patterson, Daisy B.	B. A.	'99	Mrs. C. C. Suman. ....	Cushing, Okla.
Patton, Alice L. ....	B. L.	'77	.....	
	B. A.	'78	.....	
	M. A.	'79	Teacher .....	Fayetteville.
Patton, C. C. ....	B. A.	'91	Wholesale Hardware .....	St. Louis, Mo.
Patton, Mattie J.	B. L. L.	'80	Mrs. Chas. Jenkins. ....	
Payne, B. ....	B. A.	06	Stenographer, Williams Coal Co. ....	McHenry, Ky.
Pearson, T. M. ....	B. A.	'08	Teacher .....	Atkins, Ark.
Pettigrew, T. A. ....	B. A.			
	M. A.	'78	Lawyer .....	Charleston, Ark.
Pharr, H. N. ....	B. C. E.	'93	.....	
	C. E.	'00	Cons. Engr. ....	Memphis, Tenn.
*Pharr, J. S. ....	B. A.	'92	.....	
Philbeck, R. E. ....	B. A.	'00	Inst. Prep. Dept., U. of A.	Fayetteville.
Phillips, C. O. ....	B. A.	'04	Bookkeeper, Nat'l Bank of Fayetteville .....	Fayetteville.
Pickel, J. W. ....	B. A.	'82	Physician .....	133 E. Washington St., Kirkwood, Mo.
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Pope, A. D. ....	B. S.	'06	Student, Univ. of Chicago Law School .....	Chicago, Ill.
Pope, N. P. ....	B. S.	'05	.....	
Powell, W. W. ....	B. A.	'88	.....	
Pratt, D. H. ....	B. S.	'06	.....	Fayetteville.
Pratt, F. H. ....	B. C. E.	'05	Engr. Hailingen Land & Water Co. ....	Hailingen, Tenn.
Price, C. G. ....	B. A.	'98	Gen. Agt. Union Central Life Ins. Co. ....	Little Rock, Ark.
Pritchett, F. A. ...	B. C. E.	'08	Engr. on Tallehatchie Drain- age Works .....	Marks, Miss.
Pruett, G. C. ....	B. C. E.	'06	Ass't Engr. C. M. & St. P. Ry. Co. ....	Miles City, Mont.
Pruett, R. J. ....	B. C. E.	'06	Res. Engr. C. C. & C. Ry. Co. ....	Bevier, Mo.
Pruett, W. E. ....	B. C. E.	'97	Designer, C. M. & St. P. Ry. Co., Br. Dept. ....	Chicago, Ill.

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Putman, Anna	M. A.	'75	Mrs. C. M. King.	Fayetteville.
Quarles, J. T.	B. M. E.	'04		
Rattenbury, W. H.	B. A.	'00	Salesman for Crunden-Martin, of St. Paul.	101 Drake Block, St. Paul, Minn.
Reagan, Z. L.	B. C. E.	'08	Bookkeeper, Frost & Lake.	Fayetteville.
Redden, Albert	B. A.	'08		Harrison, Ark.
Redus, J. L.	B. A.	'96	Supt. Public Schools.	Miami, Tex.
Reed, G. W. M., Jr.	B. L. L.	'84	Atty., Sec. of Interior.	Washington, D. C.
Reed, K. A.	B. E. E.	'07		Norwood, Ohio.
Reed, Lina X.	B. A.	'81		Fayetteville.
*Reed, Maggie	B. A.	'78	Mrs. Presley Crawford.	
Remy, Mollie	B. A.	'96	Mrs. S. C. Treadwell.	Tishomingo, Okla.
Reves, C. M.	B. A.	'05	Principal Public Schools.	Corning, Ark.
Rhyne, J. R.	B. C. E.	'07		
	B. S.	'06	Ass't Engr. St. Francis Dist. Drain. Work.	Greenway, Ark.
Rieff, O. S.	B. A.	'81		Little Rock, Ark.
Rife, W. B.	B. A.			
	B. S.	'03	Prin. Paris High School.	Paris, Ark.
Risser, Elizabeth	B. A.	'07		Fayetteville.
Risser, T. S.	B. E. E.	'04	Elec. Engr. Independent Telephone Co.	Omaha, Neb.
Rogers, B. A.	B. A.			
	M. A.	'82		Gravette, Ark.
Ross, H. L.	B. A.	'01	Missionary	Matamoros, Mex.
Ross, J. H.	B. S.	'08	Secretary Y. M. C. A.	Dallas, Tex.
Ross, Lucy I.	B. A.	'01		
*Ross, T. C.	B. A.	'80		
Ross, W. A.	B. A.	'98	Missionary	Linares, N. L., Mex.
Ruggles, W. A.	B. E. E.	'03	Draftsman for Board of Education	St. Louis, Mo.
Russell, L.	B. A.	'80		
Sadler, C. L.	B. C. E.	'01	Topog. U. S. G. S.	Washington, D. C.
Sadler, D. K.	B. A.	'06		Booneville, Ark.
Sanders, C. F.	B. A.	'99	Editor Sentinel-Record	Hot Springs, Ark.
Sanders, Lucy E.	B. A.	'08		Fayetteville.
Sanders, T. E.	B. A.	'01	Physician	Hot Springs, Ark.
Saxon, R. L.	B. S.	'03	Physician	Holly Grove, Ark.
Schoff, G. C.	B. C. E.	'88	Agt. Babcock & Wilcox Co.	Philadelphia, Pa.
Schimmelpfennig, C. W.				
	B. C. E.	'06	Engineer	Little Rock, Ark.
Sedwick, T. D.	B. A.			
	B. S.	'02	Chief Chemist, C. R. I. & P. Ry. Co.	Chicago, Ill.

\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Shaver, L. B.....	B. S.	'07	.....	.....
	B. C. E.	'08	Adj. Prof. C. E., U. of A.	Fayetteville.
*Shell, G. C.....	B. L. L.	'82	.....	.....
Shellenberger, Alice..	B. A.	'04	.....	Fayetteville.
Shook, Sarah .....	B. A.	'07	Student, U. of A.....	Fayetteville.
Shore, Rena B.....	B. A.	'07	.....	Fayetteville.
Shreve, A. W.....	B. C. E.	'91	Lime Mfg. ....	Farmington, Ark.
Shreve, H. B.....	B. C. E.	'91	.....	Denver, Colo.
*Simms, W. D.....	B. L.	'77	.....	.....
*Simonds, Alice .....	B. S.	'96	Mrs. A. V. Smith.....	.....
Sivley, G. M.....	B. S.	'07	.....	.....
Skelton, G. V.....	B. C. E.	'91	.....	.....
	C. E.	'95	Prof. of C. E., Ore. Agr. College .....	Corvallis, Ore.
Skelton, J. E.....	B. S.	'97	Chemist, Mathieson Alkali Works .....	Saltville, Va.
Slagle, Ida .....	B. A.	'89	Mrs. W. J. Gilbreath.....	810 S. Topeka Ave., Wichita, Kan.
Smilie, R. P.....	B. C. E.	'07	Inst. Man, Maderia Manore Ry. Co. ....	Manaos, Brazil.
Smith, A. V.....	B. A.	'98	.....	.....
Smith, C. D.....	B. A.	'02	Geologist, U. S. G. S.....	Washington, D. C.
Smith, E. C.....	B. C. E.	'08	.....	Sidney, Ark.
Smith, Fannie M....	B. A.	'01	.....	Little Rock, Ark.
Smith, H. R.....	B. A.	'08	With Caddo Gas & Oil Co.	Oil City, La.
Snell, V. K.....	B. C. E.	'08	.....	Fayetteville.
Spencer, E. L.....	B. A.	'98	.....	.....
Spradlin, B. A.....	B. A.	'07	.....	.....
	L. I.	'06	Principal High School .....	Ravenden Sp'gs, Ark.
Sowers, Gracey .....	B. A.	'08	Teacher .....	Portland, Ark.
Stanford, A. F....	B. C. E.	'04	Div. Engr., St. Francis Dist. ....	Fritz, Ark.
Stanford, J. B....	B. S. Ch.	'06	Student, P. & S. College..	Memphis, Tenn.
Stanley, J. H.....	B. A.	'07	Law Student, Columbia U.	New York City.
Starbuck, A.....	B. A.	'08	Principal High School .....	Charleston, Ark.
Stelzner, W. B....	B. E. E.	'07	Student, Gen. Elec. Co....	Schenectady, N. Y.
Stockton, Irene G....	B. A.	'06	.....	Little Rock, Ark.
Stone, B. H.....	B. A.	'04	Lawyer .....	Amarilla, Tex.
Stone, J. H.....	B. S.	'06	.....	Pine Bluff, Ark.
Streepey, J. P.....	B. A.	'03	.....	.....
	L. I.	'03	.....	.....
	B. L. L.	'06	Lawyer .....	Little Rock, Ark.
Stroup, Henry .....	B. A.	'83	Planter and Contractor....	Paris, Ark.
Stubblefield, Demie T..	L. I.	'99	.....	.....
	B. A.	'01	.....	Kansas City, Mo.
Stubblefield, G....	B. C. E.	'02	Cons. Engr. ....	Portland, Ore.

\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Sutton, Mabel	B. A.	'02	Mrs. A. W. Wasson	Songdo, Korea.
Sutton, W. S.	B. A.	'78		
	M. A.	'84		
	L. L. D.	'05	Prof. of Education, Univ. of Texas	Austin, Tex.
Swearingen, S. C.	B. A.	'04	Principal Public Schools	Stigler, Okla.
Taber, H. B.	B. A.	'07		Ft. Smith, Ark.
*Taff, A. G.	B. C. E.	'90		
Taff, J. L.	B. A.	'84	Mgr. Teachers' Ass'n.	Austin, Tex.
Taff, Mary	B. A.	'89	Mrs. G. V. Skelton	Corvallis, Ore.
Taliferro, Lou	B. L. L.	'83		
Taylor, D. W.	B. A.	'00	Lawyer	Little Rock, Ark.
Taylor, E. L.	B. L.	'76	Lawyer	Spokane, Wash.
Taylor, Rupert	B. A.	'03	Graduate Student, Colum- bia University	New York City.
Teague, C. V.	B. A.	'79	Lawyer	Hot Springs, Ark.
Thomas, B. F.	B. A.	'07		Kerens, Tex.
Thomason, Annie C.	B. A.	'00	Mrs. C. L. Dunlap	Clifton, Ariz.
Thompson, M. F.	B. E. E.	'08	With Fayetteville Electric Light Co.	Fayetteville.
Thompson, W. E.	B. S.	'08		Warren, Ark.
Tidball, Nell	B. A.	'07		
Tillar, B. J.	B. A.	'86		
Tillman, J. N.	B. L. L.	'80		
	LL. D.	'07	Pres. University of Ark.	Fayetteville.
Towler, G. F.	B. A.	'00		
Townsley, F. P.	B. S.	'07		
	B. E. E.	'08		Little Rock, Ark.
Treadway, T. C.	B. E. E.	'01		
	E. E.	'04	Vice-Pres. Treadway Elec. Co.	Little Rock, Ark.
Treadway, W. A.	B. E. E.	'00		
	E. E.	'01		
	B. M. E.	'03	Pres. Treadway Elec. Co.	Little Rock, Ark.
Treadwell, L.	C. E.	'88	V.-P. and Chief Engr. Union Bridge & Const. Co.	Kansas City, Mo.
Treadwell, S. C.	B. A.	'04	Lawyer	Tishomingo, Okla.
Triplett, C. H., Jr.	B. A.	'01	Real Estate and Farming	Pine Bluff, Ark.
Tyson, W. C.	B. C. E.	'07	Levelman, Drainage Co.	Tallehatchie Marks, Miss.
Umbaugh, Ollie L.	B. A.	'07		
	L. I.	'07	Teacher	Warren, Ark.
Van Valkenburgh, H. B.,				
	B. S.	'05	Missionary	Kashing, China.
Vance, A. M.	B. C. E.	'93	Ass't Engr. M. P. Ry. Co.	Holden, Mo.
Vandeventer, J.	B. S.	'93	U. S. Navy	
Vaughan, G.	B. A.	'96		
	B. L. L.	'98	Lawyer	Little Rock, Ark.

\*Deceased.

Name.	Degree.	Year.	Occupation.	Address.
Vaulx, Eleanor	B. A.	'04		Fayetteville.
Vaulx, Julia	B. A.	'92	Inst. in Eng., Iowa State College	Ames, Iowa.
Vaulx, Katherine D.	B. A.	'97		De Land, Fla.
Vaulx, S. F.	B. A.	'92	Treas. Bluff City Lbr. Co.	Pine Bluff, Ark.
Waggener, Annie M.	B. L.	'77	Mrs. G. W. Marques	Summers, Ark.
Waggener, W. J.	B. A.	'76		
	M. A.	'85		
Walker, J. V.	B. A.	'77	Lawyer	Fayetteville.
Walker, J. W.	B. A.	'04		
	L. I.	'04	Student, Medical School	St. Louis, Mo.
Walker, Mabel	B. A.	'08		Buntyn, Tenn.
Walls, C. A.	B. A.	'07	Private Sec. to Hon. J. T. Robinson, Student Law Dept., Georgetown Univ.	Washington, D. C.
Warren, G. A.	B. L.	'88	Physician	Black Rock, Ark.
Wasson, A. W.	B. A.	'02	Missionary	Songdo, Korea.
Watson, C. A.	B. A.	'77	Teacher	Fayetteville.
Watson, E. P.	B. C. E.	'08		Bisbee, Ariz.
Watson, J. J.	B. A.	'81		
Watson, J. T.	B. C. E.	'07	Ass't City Engr.	Pine Bluff, Ark.
Webb, C. W.	B. S.	'05	Medical Student, Johns Hopkins University	Baltimore, Md.
Weber, L. W.	B. A.	'06	Principal High School	Durant, Okla.
Webster, F. H.	B. E. E.	'05	Student, Gen. Elec. Co.	Schenectady, N. Y.
Webster, Olive S.	B. A.	'01		Marvell, Ark.
Weems, C. N.	B. A.	'99	Teacher	Smith's Grove, Ky.
Weld, Jean G.	B. A.	'07		Marianna, Ark.
Wheeler, J. N.	B. A.	'90		Warren, Ark.
Whitehead, A. D.	B. S. A.	'05		
	L. I.	'04	Teacher	Hot Springs, Ark.
Wiggins, J. C.	B. C. E.	'08	Surveyor	Roswell, N. M.
Wiley, Pearl E.	B. S.	'02	Teacher of Science in H. S.	Booneville, Ark.
*Wiley, Winona M.	B. A.	'99		
Wilkinson, W. N.	B. A.	'01	Cashier Farmer's Bank	Greenwood, Ark.
Williams, Beulah	B. A.	'05	Mrs. H. B. Van Valken- burgh, Missionary	Kashing, China.
Williams, C. X.	B. A.	'04		
	L. I.	'02		Booneville, Ark.
Williams, Hattie	B. A.	'98	Teacher	Fayetteville.
Williams, Jennie	B. A.	'96	Teacher	Ft. Smith, Ark.
Williams, Naomi J.	B. L. L.			
	M. A.	'80	Inst. Prep. Dept., U. of A.	Fayetteville.
Williams, O. E.	B. A.	'08	Principal North School	Fayetteville.
*Willis, R. H.	B. A.	'88		
Wilson, C. P.	B. S. A.*	'06	Student, Univ. of Pa.	Philadelphia, Pa.
Wilson, H. H.	B. E. E.	'01	In Mech. Eng. Dept., Pa. Ry. Co.	Altoona, Pa.

\*Deceased.



Name.	Degree.	Year.	Occupation.	Address.
Wilson, J. M.....	B. S.	'07	Duncan Cotton Oil Co....	Duncan, Okla.
Wilson, J. R.....	B. A.			
	L. I.	'04	.....	
	L. L. B.	'06	Lawyer .....	Warren, Ark.
Wilson, Nellie C....	B. A.	'06	.....	Ft. Smith, Ark.
Wilson, W. O.....	B. S.	'04	.....	
	L. I.	'01	Teacher, Ark. State Normal.	Conway, Ark.
Winters, W. L....	B. C. E.	'06	Supervising Engr., Board of Imp. ....	Winfield, Kan.
Womack, J. P.....	B. A.	'03	.....	
	L. I.	'02	Principal Stephens H. S.	Stephens, Ark.
Wood, A. C.....	B. M. E.	'92	Cons. Mech. Engr.....	Philadelphia, Pa.
Wood, B. F.....	B. E. E.	'93	Ass't Engr. Motive Power, Pa. Ry. Co.....	Altoona, Pa.
Wood, C. D.....	B. A.	'79	Assoc. Justice Supreme Court .....	Little Rock, Ark.
Wood, C. F.....	B. C. E.	'04	Real Estate Broker .....	Charlotte, N. C.
Wood, G. B.....	B. A.	'99	Gen. Agt., K. C. S.....	Shreveport, La.
Wood, J. S.....	B. S. C.	'07	Cadet, U. S. Military Ac.	West Point.
Wood, O. S....	B. S. in C. E.	'08	2d Lieut., U. S. Army, Ft. Logan H. Roots.....	Little Rock, Ark.
Woodall, W. H.....	B. A.	'85	.....	
Woodson, E. F....	B. C. E.	'08	Student, U. of A.....	Fayetteville, Ark.
Woodruff, C. H....	B. A.	'08	Ass't Prin. H. S.....	Sapulpa, Okla.
Woolverton, C. D..	B. L. L.	'85	.....	
York, J. O.....	B. A.	'07	.....	Harrison, Ark.
Young, Daisy .....	B. A.	'00	.....	

## GRADUATES OF THE DEPARTMENT OF PHI- LOSOPHY AND PEDAGOGY.

Name.	Year.	Occupation.	Address.
Albright, Ella .....	'06	Teacher, Public School....	Cushman, Ark.
Audigier, Louie .....	'07	.....	Little Rock, Ark.
Balch, C. P.....	'05	.....	
Barton, Maude L.....	'06	Teacher, Public School....	Ft. Smith, Ark.
Bell, Lexie .....	'07	Student, U. of A.....	Fayetteville.
Blair, Leora .....	'07	Teacher .....	Dardanelle, Ark.
Blakeley, Leonora I.....	'78	Mrs. H. M. Hudgins.....	Fayetteville.
Blakemore, Amy .....	'07	Teacher .....	De Queen, Ark.
Blanchard, Fay H.....	'04	.....	Fayetteville.
Boggs, J. F.....	'07	.....	
Bryant, W. C.....	'07	Teacher .....	Mulberry, Ark.
Cabe, R. L.....	'06	Teacher .....	Bismarck, Ark.
Campbell, L. L.....	'06	Law Student, Columbia U..	New York, N. Y.
Cartwright, W. W.....	'03	Member General Assembly.	Mountain View, Ark.
Clark, Flora L.....	'03	Mrs. Flora C. Olney.....	Mena, Ark.
Cole, Mary E.....	'04	Instructor in Languages, Stillwater High School..	Stillwater, Okla.

Name.	Year.	Occupation.	Address.
Crozier, Ruth .....	'07	Teacher .....	De Queen, Ark.
Davis, Mary L. ....	'04	Teacher .....	Texarkana, Ark.
Easterly, Maud L. ....	'99	.....	.....
Ellis, Miggie .....	'98	.....	Fayetteville.
Evins, Sallie D. ....	'07	.....	.....
Farrish, Myrtle .....	'07	Student, U. of A. ....	Fayetteville.
Galloway, Irene D. ....	'90	Librarian .....	Waxahachie, Tex.
Grubbs, J. M. ....	'05	Lawyer .....	Argenta, Ark.
Hall, H. J. ....	'87	.....	.....
Hamilton, W. J. ....	'91	Merchant .....	Hartford, Ark.
Hardin, Lena J. ....	'92	.....	Fayetteville.
Hart, Mary B. ....	'07	.....	.....
Hobbs, W. D. ....	'99	War Dept. Bldg. ....	Washington, D. C.
Holcomb, C. ....	'90	Mrs. E. F. Ellis .....	Fayetteville.
Hudgins, J. G. ....	'05	Teacher .....	Clarendon, Ark.
Irby, Jamie .....	'07	.....	Newport, Ark.
Jernigan, W. J. ....	'07	Student, U. of A. ....	Fayetteville.
Johnson, D. A. E. ....	'06	Student, U. of A. ....	Fayetteville.
Jones, G. F. ....	'07	.....	Little Rock, Ark.
Key, K. C. ....	'05	.....	Fayetteville.
Kimbrough, N. D. ....	'00	.....	.....
Kuykendall, J. W. ....	'04	Supt. of Schools .....	Ft. Smith, Ark.
Lamberton, Annie .....	'07	.....	Harrison, Ark.
McGraw, Ophelia .....	'07	Student, U. of A. ....	Fayetteville.
McRae, Rose .....	'07	.....	Little Rock, Ark.
Mitchell, B., Jr. ....	'04	Adjunct Prof. of M. E., U. of A. ....	Fayetteville.
Morgan, W. S. ....	'07	Student, U. of A. ....	Fayetteville.
Moore, Henrietta .....	'07	Teacher .....	Warren, Ark.
Morrow, Lulu C. ....	'99	Teacher, Public Schools ..	Fayetteville.
Nelson, R. J. ....	'03	Prof. of Agriculture, U. of A. ....	Fayetteville.
Oates, C. E. ....	'04	Prin. Cameron High School.	Cameron, Tex.
Peterson, W. J. ....	'03	Supt. of Schools .....	Russellville, Ark.
Phillips, Grace .....	'05	.....	Fayetteville.
Pugh, Anna .....	'07	Teacher, Mountain Home College .....	Mountain Home, Ark.
Southerland, J. W. ....	'88	.....	.....
Spradlin, B. A. ....	'06	Pres. Mountain Home Col- lege .....	Mountain Home, Ark.
Streepey, J. P. ....	'03	Lawyer .....	Little Rock, Ark.
Stubblefield, Demie T. ....	'99	.....	Kansas City, Mo.
Taff, J. H. ....	'87	Mgr. Teachers' Ass'n. ....	Dallas, Tex.
Tidball, Nell .....	'07	Student, Mary Baldwin In- stitute .....	Staunton, Va.
Thompson, A. S. ....	'04	Teacher .....	Springfield, Ark.
Umbaugh, Ollie L. ....	'07	Teacher .....	Warren, Ark.
Walker, J. W. ....	'04	Student, Medical School ...	St. Louis, Mo.
Watkins, W. H. ....	'97	.....	.....

Name.	Year.	Occupation.	Address.
Whitehead, A. D.....	'04	.....	.....
Williams, C. X.....	'02	.....	Booneville, Ark.
*Williams, Matie .....	'97	Mrs. J. H. McLean .....	.....
Wilson, J. R.....	'04	Lawyer .....	Warren, Ark.
Wilson, W. O.....	'01	Teacher Ft. Smith High School .....	Ft. Smith, Ark.
Womack, J. P.....	'02	Prin. Stephens High School.	Stephens, Ark.

### GRADUATES OF THE SHORT COURSE IN ELECTRICAL ENGINEERING.

Name.	Year.	Occupation.	Address.
Bell, R. D.....	'01	.....	.....
Bryant, R. B.....	'05	With L. R. Ry. & Elect. Lt. Co. ....	Little Rock, Ark.
Cox, H. H.....	'05	.....	.....
Edwards, R. M.....	'07	W. E. S. Co.....	St. Louis, Mo.
Gladson, A. J.....	'01	Electrical Engineer .....	Seattle, Wash.
Martin, S. F.....	'05	With Ill. Steel Co.....	S. Chicago, Ill.
McCloud, B. J.....	'06	With Am. Bell Telephone Co. ....	St. Louis, Mo.
McCloud, W. D.....	'06	With Consolidated Light & Power Co. ....	St. Louis, Mo.
McKinnon, B. C.....	'05	Supt. Meter Dept., Shreve- port Gas & Electric Lt. Co. ....	Shreveport, La.
Morrow, D. B.....	'05	.....	.....
Murphy, D. H.....	'04	With Fred A. Jones Co....	Dallas, Tex.
Pool, R. Y.....	'03	.....	.....
Portnell, J. R.....	'05	.....	.....
Rogers, H. E.....	'07	.....	.....

### GRADUATES IN MECHANICS AND ARTS COURSE.

Name.	Year.	Occupation.	Address.
Burton, M. ....	'07	Telephone Const. ....	Bald Knob, Ark.
Catts, E. C.....	'04	M. E. Dept., Eagle & Phoe- nix Cotton Mills.....	Columbus, Ga.
Chase, G. C.....	'04	.....	.....
Dean, H. W.....	'07	Inst. M. E. Dept., U. of A.	Fayetteville.
Faucett, C. S.....	'03	.....	.....
Finley, W. ....	'07	.....	Fayetteville.
Jackson, W. ....	'03	.....	Cane Hill, Ark.
Leverett, E. V.....	'02	Supt. City Electric Light Plant .....	Bentonville, Ark.
Larrabee, R. A.....	'07	.....	Fayetteville.
Mackey, E. ....	'04	.....	.....
Pyeatt, T. S.....	'07	.....	Cane Hill, Ark.
Shivel, O. L.....	'04	.....	Galena, Kan.

\*Deceased.

# Alphabetical List of Officers and Students of the Departments at Fayetteville.

*Abbreviations.*—*Adj. Prof.*, Adjunct Professor; *Assoc. Prof.*, Associate Professor; *C.*, Conservatory of Music and Arts; *Fr.*, Freshman; *Gr.*, Graduate; *Instr.*, Instructor; *Jr.*, Junior; *1 P.*, First Year Preparatory; *2 P.*, Second Year Preparatory; *Prof.*, Professor; *S. C.*, Short Course in Engineering; *So.*, Sophomore; *Sp.*, Special; *Sr.*, Senior; *Un.*, Unclassified. For students by classes, see pp. 199, *et seq.*; for officers, see pp. 9, *et seq.*

Abbott, T. O., <i>So.</i>	Barry, W. T., <i>Fr.</i>	Blair, T. C., <i>Sr.</i>
Adams, C. F., <i>Prof.</i>	Barton, D. R., <i>So.</i>	Blake, Estelle M., <i>Inst.</i>
Adams, R., <i>Fr.</i>	Barton, W. H., <i>Fr.</i>	Blake, Theodore, <i>Inst.</i>
Alewine, O. M., <i>2 P.</i>	Bateman, Mary C., <i>Inst.</i>	Blakeley, Ray, <i>Fr.</i>
Allen, B. F., <i>So.</i>	<i>Music.</i>	Blakely, G. T., <i>Jr.</i>
Allen, E., <i>Sr.</i>	Bates, J. W., <i>Fr.</i>	Blakemore, W. A., <i>So.</i>
Allen, J. C., <i>Sr.</i>	Baugh, J. M., <i>Fr.</i>	Bland, Rose, <i>Inst.</i>
Allen, Sarah, <i>2 P.</i>	Baum, E. J., <i>S. C.</i>	Bledsoe, J. L., <i>Jr.</i>
Allison, Martha, <i>1 P.</i>	Baum, Leah C., <i>1 P.</i>	Bloom, Sol. N., <i>Fr.</i>
Alphin, H., <i>So.</i>	Baxendale, J., <i>Fr.</i>	Boals, E. H., <i>Fr.</i>
Ambrose, R., <i>2 P.</i>	Bayley, W. S., <i>Sr.</i>	Boles, A. P., <i>Gr.</i>
Ambrose, W. H., <i>Fr.</i>	Beane, Ada L., <i>Jr.</i>	Boles, C. B., <i>Jr.</i>
Andrain, Anna C., <i>1 P.</i>	Beardsley, J. M., <i>So.</i>	Boner, R. P., <i>2 P.</i>
Andrews, J. A., <i>2 P.</i>	Bell, C. H., <i>So.</i>	Boone, D. M., <i>Jr.</i>
Armistead, C. F., <i>Comm.</i>	Bell, E. A., <i>Fr.</i>	Bowen, Annie L., <i>1 P.</i>
Armitage, J. G., <i>Fr.</i>	Bell, Lexie, <i>Sr.</i>	Bozarth, Gladys, <i>1 P.</i>
Armstrong, R. B., <i>2 P.</i>	Bell, Mabel C., <i>C.</i>	Bradford, C. G., <i>Fr.</i>
Arnold, J. G., <i>Jr.</i>	Belts, Mary F., <i>Fr.</i>	Bradford, W. C., <i>1 P.</i>
Ashley, J. C., <i>So.</i>	Benbrook, G., <i>1 P.</i>	Bradford, W. E., <i>Fr.</i>
Atkinson, W. H., <i>Fr.</i>	Bennett, F., <i>Jr.</i>	Bradley, H. D., <i>Fr.</i>
Austin, R. M., <i>Fr.</i>	Benson, S. D., <i>Un.</i>	Bradley, H. H., <i>1 P.</i>
Baber, O. L., <i>1 P.</i>	Benton, S., <i>1 P.</i>	Bragg, P. N., <i>Fr.</i>
Bacharach, E., <i>Fr.</i>	Benton, S. D., <i>1 P.</i>	Breckenridge, G. C., <i>1 P.</i>
Badinelli, E. B., <i>Jr.</i>	Billingley, A. L., <i>2 P.</i>	Brewster, C. R., <i>Fr.</i>
Bagley, H. S., <i>So.</i>	Bills, A. F., <i>Sp.</i>	Briggs, G. C., <i>1 P.</i>
Bailey, Martha W., <i>1 P.</i>	Bilyew, R. A., <i>2 P.</i>	Bringman, F. W., <i>Fr.</i>
Bailey, P. W., <i>Jr.</i>	Binkley, R. J., <i>Jr.</i>	Brock, W. K., <i>Fr.</i>
Baker, Alice O., <i>So.</i>	Black, E. H., <i>2 P.</i>	Brown, C. E., <i>2 P.</i>
Baker, L. S., <i>S. C.</i>	Black, J. H., <i>2 P.</i>	Brown, C. J., <i>So.</i>
Baker, R. Kate, <i>Fr.</i>	Black, Kate E., <i>So.</i>	Brown, D. W., <i>Fr.</i>
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Barnes, J. K., <i>Fr.</i>	Blackshare, Jenny L., <i>Fr.</i>	Brown, R. L., <i>S. C.</i>
Barnett, T. J., <i>So.</i>	Blackshare, Lena E., <i>Fr.</i>	Brownfield, Martha, <i>Asst.</i>
Barr, Frank, <i>Band Inst.</i>	Blackshare, Lochie D., <i>Fr.</i>	<i>Libr.</i>
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Barron, W. W., <i>1 P.</i>	Blair, J. H., <i>Jr.</i>	Bruce, W. M., <i>Prof.</i>
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 Hudson, R. S., 2 *P.*  
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 Hughes, J. L., *Fr.*  
 Hughes, Martha L., 1 *P.*  
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 Jackson, C. B., 2 *P.*  
 Jackson, G. C., 2 *P.*  
 Jackson, J. G., 1 *P.*  
 Jackson, T. L., 1 *P.*  
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 James, Elsie, *So.*  
 James, J. J., *Adj. Prof.*  
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 Jennings, Ruth W., *So.*  
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